abcam

ab322206

Anti-CD62E antibody [RM2070]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Multiclonal
Immunogens	The exact immunogen used to generate this antibody is proprietary information.
Clone number	RM2070
Purification technique	Affinity purification Protein A
Concentration	0.488 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/50
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Transfected cell line - Human
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Species	Mouse
Dilution info	1/100
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Species	Mouse
Dilution info	1/30
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

Target data

See full target information SELE

Function	Cell-surface glycoprotein having a role in immunoadhesion. Mediates in the adhesion of blood neutrophils in cytokine-activated endothelium through interaction with SELPLG/PSGL1. May have a role in capillary morphogenesis.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What are recombinant multiclonals?
Recombinant multiclonals are a mixture of recombinant antibodies co-expressed from a library of heavy and light chains. They offer several advantages including:

- The sensitivity of polyclonal antibodies by recognising multiple epitopes

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

View our range of recombinant multiclonal antibodies.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CD62E also known as E-selectin or ELAM-1 is a cell adhesion molecule with a mass of approximately 115 kDa. It is present mainly on endothelial cells activated by cytokines. As a transmembrane glycoprotein E-selectin plays a mechanical role in mediating the tethering and rolling of leukocytes on the vascular endothelium during the inflammatory response. This function is important in directing leukocytes to sites of tissue damage or infection.
Biological function summary	E-selectin facilitates leukocyte adhesion by binding specific carbohydrate ligands on the surface of circulating immune cells. This binding is critical in the cascade of events that leads to leukocyte extravasation into tissues. E-selectin does not work in isolation rather forming part of a complex interaction with other cell adhesion molecules such as P-selectin and L-selectin. These interactions ensure precise control of cellular traffic during inflammatory responses.
Pathways	CD62E engages in the inflammatory signaling pathways including the NF-kB pathway. This pathway modulates the expression of E-selectin in response to pro-inflammatory cytokines like interleukin-1 and tumor necrosis factor-alpha. CD62E interacts with integrins on leukocytes and has downstream effects on cellular processes involved in immune response. Its cooperation with proteins like ICAM-1 and VCAM-1 further integrates it into a network of adhesion molecules maintaining vascular stability and immune surveillance.
Associated diseases and disorders	E-selectin expression is highly relevant in inflammatory diseases such as rheumatoid arthritis and atherosclerosis. These disorders involve chronic inflammation where the persistent activation of endothelial cells and overexpression of E-selectin contribute to pathology. The link with ICAM-1 in these settings suggests a mutual regulation between cell adhesion molecules enhancing leukocyte recruitment to inflamed tissues. This makes E-selectin not only a marker of endothelial activation but also a potential therapeutic target for modulating leukocyte adhesion in inflammatory diseases.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

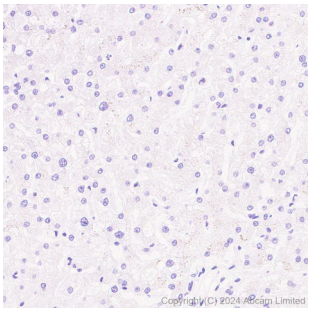
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

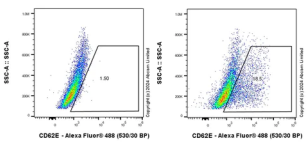
15 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD62E antibody [RM2070] (ab322206)

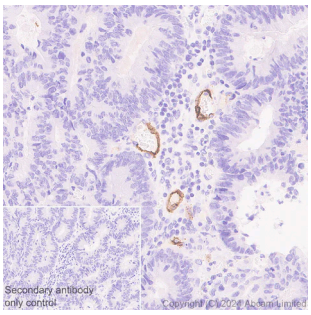
CD62E Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human liver tissue using rabbit Anti-CD62E antibody

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling CD62E with ab322206 at 1/100 (4.88 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Negative control: no staining on human liver. The section was incubated with ab322206 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



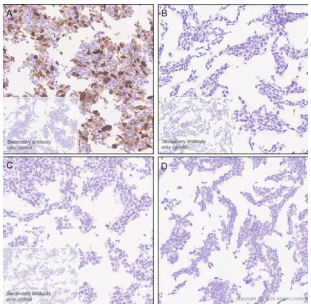
Flow Cytometry - Anti-CD62E antibody [RM2070] (ab322206)

Flow cytometric analysis of HUVEC (human umbilical vein endothelial cell) treated with 20ng/ml Interleukin 1 beta for 4 hours (Right) / Untreated control (Left) cells labeling CD62E with ab322206 at 1/50 dilution (1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody). Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.
Gated on viable cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD62E antibody [RM2070] (ab322206)

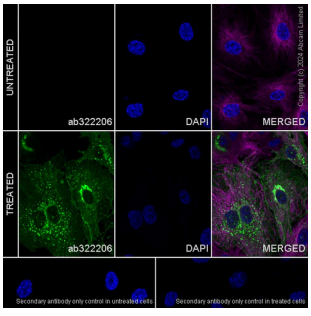
Immunohistochemical analysis of paraffin-embedded Human colon carcinoma tissue labeling CD62E with ab322206 at 1/100 (4.88 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on blood vessel of human colon carcinoma. The section was incubated with ab322206 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD62E antibody [RM2070] (ab322206)

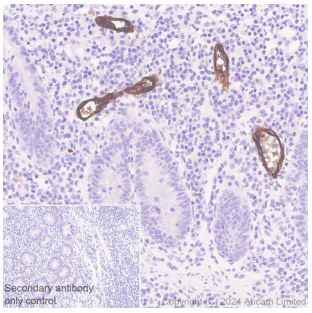
CD62E Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD62E antibody

Immunohistochemical analysis of paraffin-embedded (A) HEK-293T (human embryonic kidney epithelial cell) transfected with a human CD62E expression vector containing a Myc-His tag. (B) HEK-293T transfected with a human CD62L expression vector containing a Myc-His tag. (C) HEK-293T transfected with a human CD62P expression vector containing a Myc-His tag. (D) HEK-293T transfected with empty vector containing a Myc-His tag. tissue labeling CD62E with ab322206 at 1/2000 (0.244 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on HEK-293T transfected with a Myc-His-tagged human CD62E construct (image A). No staining on HEK-293T transfected with a Myc-His-tagged human CD62L construct (image B), human CD62P construct (image C). No staining on HEK-293T transfected with empty plasmid (image D). The section was incubated with ab322206 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



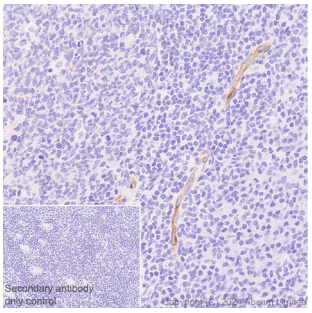
Immunocytochemistry/ Immunofluorescence - Anti-CD62E antibody [RM2070] (ab322206)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HUVEC (human umbilical vein endothelial cell) cells labelling CD62E with ab322206 at 1/100 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green). Confocal image showing membrane and cytoplasmic staining in HUVEC cell line (shown in green) treated with IL-1beta (20 ng/mL) for 4 hr. The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Magenta). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



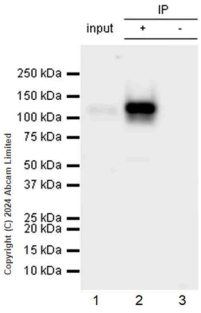
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD62E antibody [RM2070] (ab322206)

Immunohistochemical analysis of paraffin-embedded Human appendicitis tissue labeling CD62E with ab322206 at 1/100 (4.88 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on blood vessel of human appendicitis. The section was incubated with ab322206 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD62E antibody [RM2070] (ab322206)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling CD62E with ab322206 at 1/100 (4.88 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on blood vessel of human tonsil. The section was incubated with ab322206 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunoprecipitation - Anti-CD62E antibody [RM2070] (ab322206)

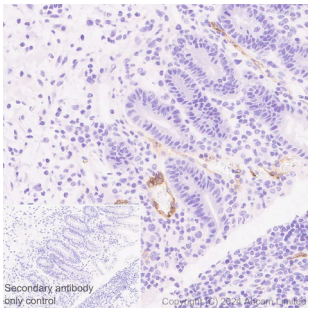
All lanes:
Immunoprecipitation - Anti-CD62E antibody [RM2070] (ab322206) at 1/30 dilution

All lanes:
HUVEC (human umbilical vein endothelial cell) treated with 20ng/ml IL-1beta for 4h whole cell lysate

Secondary

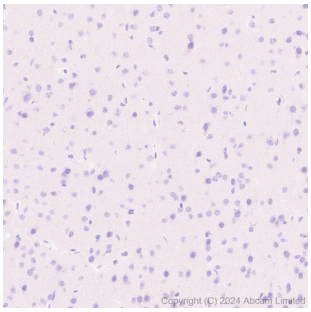
All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Exposure time: 15s



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD62E antibody [RM2070] (ab322206)

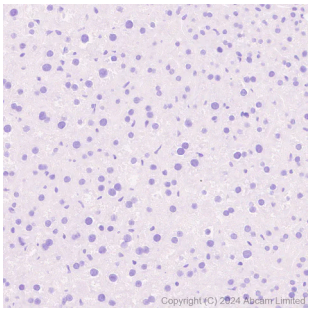
Immunohistochemical analysis of paraffin-embedded Mouse Crohn's disease model tissue labeling CD62E with ab322206 at 1/100 (4.88 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on blood vessel of mouse Crohn's disease model. The section was incubated with ab322206 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD62E antibody [RM2070] (ab322206)

CD62E Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse cerebrum tissue using rabbit Anti-CD62E antibody

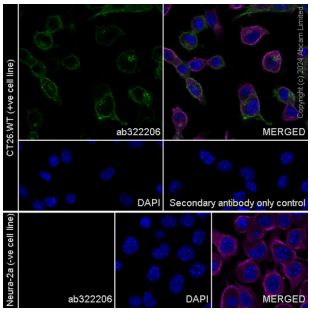
Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling CD62E with ab322206 at 1/100 (4.88 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Negative control: no staining on mouse cerebrum. The section was incubated with ab322206 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD62E antibody [RM2070] (ab322206)

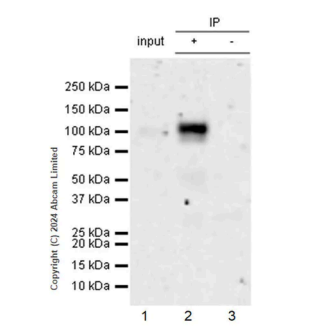
CD62E Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse liver tissue using rabbit Anti-CD62E antibody

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling CD62E with ab322206 at 1/100 (4.88 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Negative control: no staining on mouse liver. The section was incubated with ab322206 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunocytochemistry/ Immunofluorescence - Anti-CD62E antibody [RM2070] (ab322206)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized CT26.WT (mouse colon fibroblast) cells labelling CD62E with ab322206 at 1/100 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green). Confocal image showing membrane and cytoplasmic staining in CT26.WT cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Negative control: Neuro-2a. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Magenta). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Immunoprecipitation - Anti-CD62E antibody [RM2070] (ab322206)

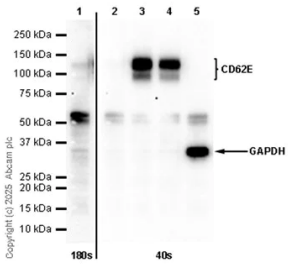
All lanes:
Immunoprecipitation - Anti-CD62E antibody [RM2070] (ab322206) at 1/30 dilution

All lanes:
CT26.WT (mouse colorectal carcinoma fibroblast) whole cell lysate

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Exposure time: 180s



Western blot - Anti-CD62E antibody [RM2070] (ab322206)

CD62E Western blot staining of HUVEC (human umbilical vein endothelial cell) treated with 20ng/ml IL- lbeta for 4h whole cell lysate using rabbit Anti-CD62E antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure Time Lane 1: 180s, Lane 2: 40s

Compared with ab300557, ab319105 and ab322206 have higher sensitivity, we recommend ab319105 and ab322206 as an alternative for testing CD62E in western blot.

Lanes 1 - 2:
Anti-CD62E antibody [EPR25616-62] (ab300557) at 1/1000 dilution

Lane 3:
Western blot - Anti-CD62E antibody [EPR28605-81] (ab319105) at 1/1000 dilution

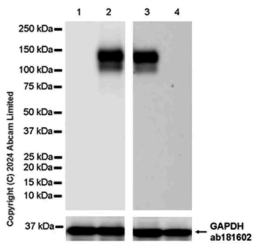
Lane 4:
Western blot - Anti-CD62E antibody [RM2070] (ab322206) at 1/1000 dilution

All lanes:
HUVEC (human umbilical vein endothelial cell) treated with 20ng/ml IL- lbeta for 4h whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 100 kDa, 115 kDa



Western blot - Anti-CD62E antibody [RM2070] (ab322206)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID: 7589110).

Negative control: Neuro-2a.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

Exposure time: Lanes 1-2: 15 seconds; Lanes 3-4: 81 seconds.

All lanes:
Western blot - Anti-CD62E antibody [RM2070] (ab322206) at 1/1000 dilution

Lane 1:
Untreated HUVEC (human umbilical vein endothelial cell) whole cell lysate at 20 µg

Lane 2:
HUVEC treated with 20ng/ml IL-lbeta for 4h whole cell lysate at 20 µg

Lane 3:
CT26.WT (mouse colorectal carcinoma fibroblast) whole cell lysate at 20 µg

Lane 4:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 100 kDa, 115 kDa, 36 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.