abcam

ab326712

Anti-TSPO antibody [12B8]

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 1% BSA, 1% TBS, 1X
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	12B8
Purification technique	Affinity purification Protein A

Reactivity data

WB

Tested

Species	Human
Dilution info	1/2000
Notes	-

Species	Mouse
Dilution info	1/2000

Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/200
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/200
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Flow Cyt

Tested

Species	Human
Dilution info	1/100
Notes	-

Expected

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

ICC/IF

Tested

Species	Human
Dilution info	1/200
Notes	-

Expected

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

Target data

See full target information TSPO

Function	Can bind protoporphyrin IX and may play a role in the transport of porphyrins and heme (By similarity). Promotes the transport of cholesterol across mitochondrial membranes and may play a role in lipid metabolism (PubMed:24814875), but its precise physiological role is controversial. It is apparently not required for steroid hormone biosynthesis. Was initially identified as peripheral-type benzodiazepine receptor; can also bind isoquinoline carboxamides (PubMed:1847678).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	-20°C
Appropriate long-term storage conditions	-20°C
Storage information	Avoid freeze / thaw cycle, The product can be stored for up to 12 months

Notes

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

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

For more information, read more on recombinant antibodies.

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

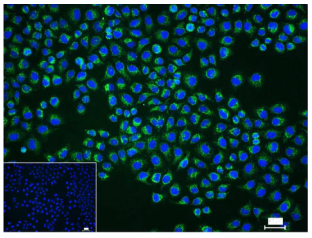
We do not recommend this combination. It is not covered by our product promise.

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.

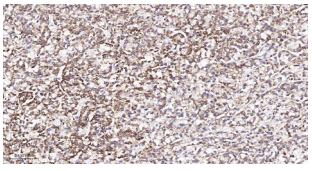
16 product images



Immunocytochemistry/ Immunofluorescence - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunocytochemistry/ Immunofluorescence staining of HeLa cells using rabbit Anti-TSPO antibody

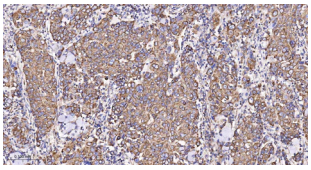
4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (TSPO) monoclonal Antibody, unconjugated (ab326712) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, FITC) at 37°C for 90 min, DAPI (blue) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human Liver Cancer using rabbit Anti-TSPO antibody

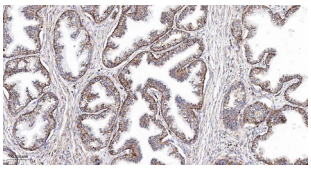
Paraformaldehyde-fixed, paraffin embedded Human Liver Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human Cervical Cancer using rabbit Anti-TSPO antibody

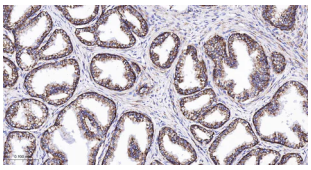
Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human Prostate Tumor using rabbit Anti-TSPO antibody

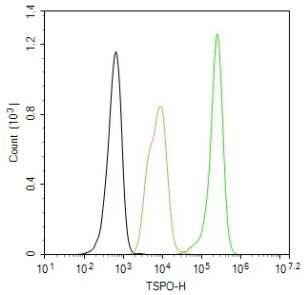
Paraformaldehyde-fixed, paraffin embedded Human Prostate Tumor; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human Prostate using rabbit Anti-TSPO antibody

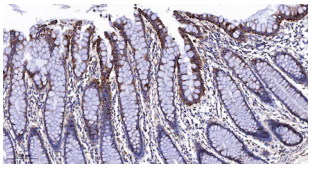
Paraformaldehyde-fixed, paraffin embedded Human Prostate; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Flow Cytometry - Anti-TSPO antibody [12B8] (ab326712)

TSPO Flow Cytometry staining of HeLa cells using rabbit Anti-TSPO antibody

The Hela (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-TSPO antibody (ab326712,1:100); Isotype Control (orange): Rabbit IgG. Blank control (black): PBS. Acquisition of 20,000 events was performed.

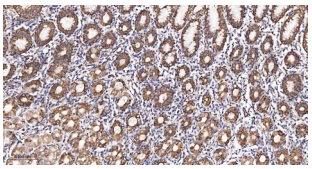


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human Colon using rabbit Anti-TSPO antibody

Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody,

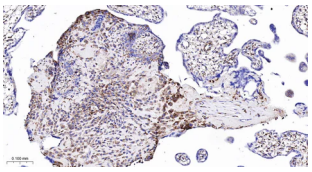
Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human Stomach using rabbit Anti-TSPO antibody

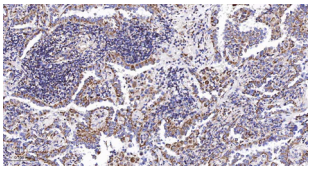
Paraformaldehyde-fixed, paraffin embedded Human Stomach; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human Placenta using rabbit Anti-TSPO antibody

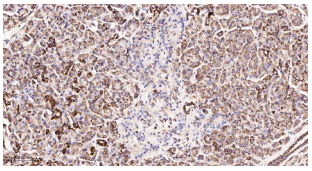
Paraformaldehyde-fixed, paraffin embedded Human Placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human Lung Cancer using rabbit Anti-TSPO antibody

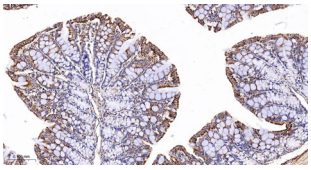
Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human Pancreas using rabbit Anti-TSPO antibody

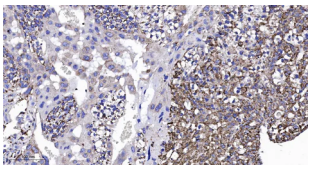
Paraformaldehyde-fixed, paraffin embedded Human Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse Colon using rabbit Anti-TSPO antibody

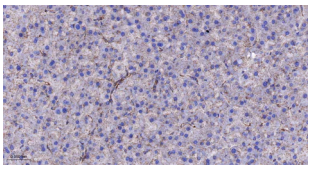
Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse Placenta using rabbit Anti-TSPO antibody

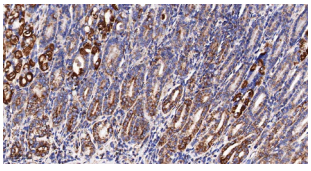
Paraformaldehyde-fixed, paraffin embedded Mouse Placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse Pancreas using rabbit Anti-TSPO antibody

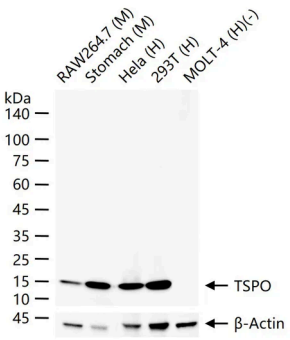
Paraformaldehyde-fixed, paraffin embedded Mouse Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPO antibody [12B8] (ab326712)

TSPO Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse Stomach using rabbit Anti-TSPO antibody

Paraformaldehyde-fixed, paraffin embedded Mouse Stomach; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with TSPO Monoclonal Antibody, Unconjugated (ab326712) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG Antibody (H+L), HRP Conjugated and DAB staining.



Western blot - Anti-TSPO antibody [12B8] (ab326712)

TSPO Western blot staining using rabbit Anti-TSPO antibody

25 ug total protein per lane of various lysates (see on figure) probed with TSPO monoclonal antibody, unconjugated (ab326712) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.
All lanes:
Western blot - Anti-TSPO antibody [12B8] (ab326712) at 1/2000 dilution

Lane 1:
RAW264.7 at 25 µg

Lane 2:
Mouse stomach at 25 µg

Lane 3:
HeLa at 25 µg

Lane 4:
293T at 25 µg

Lane 5:
MOLT-4 at 25 µg

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