abcam

ab307673

Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR27353-81
Purification technique	Affinity purification Protein A
Concentration	1.048 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-

Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

IHC-P

Tested

Species	Rat, Mouse, Human
Dilution info	-
Notes	-

WB

Tested

Species	Rat
Dilution info	-
Notes	We recommend using freshly prepared lysates and proceeding with SDS-PAGE and electrotransfer immediately after cell lysis. When testing cell line lysates, the use of a femtogram level ECL substrate is recommended for optimal signal detection.

Species	Mouse
Dilution info	-
Notes	We recommend using freshly prepared lysates and proceeding with SDS-PAGE and electrotransfer immediately after cell lysis. When testing cell line lysates, the use of a femtogram level ECL substrate is recommended for optimal signal detection.

Species	Human
Dilution info	-
Notes	We recommend using freshly prepared lysates and proceeding with SDS-PAGE and electrotransfer immediately after cell lysis. When testing cell line lysates, the use of a femtogram level ECL substrate is recommended for optimal signal detection.

ChIP

Not recommended

Species	Human, Rat, Mouse
Dilution info	-
Notes	-

Target data

See full target information ETS1

Function	Transcription factor (PubMed:10698492, PubMed:11909962). Directly controls the expression of cytokine and chemokine genes in a wide variety of different cellular contexts (PubMed:20378371). May control the differentiation, survival and proliferation of lymphoid cells (PubMed:20378371). May also regulate angiogenesis through regulation of expression of genes controlling endothelial cell migration and invasion (PubMed:15247905, PubMed:15592518). Isoform Ets-1 p27. Acts as a dominant-negative for isoform c-ETS-1A.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

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.

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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

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

Activity summary	ETS1 also known as E26 Transformation-Specific 1 is a transcription factor protein weighing approximately 51-53 kDa. It belongs to the ETS family of transcription factors and can be referred to by other names such as ETS-1 ETS 1 or Ets-1. This protein shows expression in numerous tissues including the thymus spleen and brain. Importantly ETS1 binds to specific DNA sequences to regulate the transcription of various target genes.
Biological function summary	The function of this protein involves the regulation of gene expression linked to cell development differentiation and apoptosis. ETS1 does not form stable complexes with other proteins in its resting form but it can interact dynamically with co-factors during activation. Its activity plays a role in immune response modulation and vascular development by controlling downstream target genes connected to these processes.
Pathways	The involvement of this protein spans key signal transduction pathways including the MAPK and PI3K/AKT pathways. In these pathways ETS1 regulates gene expression influenced by external stimuli such as growth factors. It interacts with other pathway-related proteins like ERK1/2 and AKT initiating cellular responses that contribute to cell proliferation and survival mechanisms.
Associated diseases and disorders	Abnormalities in the function or expression of this protein have been linked to certain cancers such as leukemia and breast cancer. The protein interacts with other oncogenic proteins including BRISA and Palikuqi leading to progression of these malignancies. Additionally involvement in autoimmune disorders like lupus has been observed where deregulation of ETS1 can affect immune cell behavior and promote hyperactivation of immune responses.

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

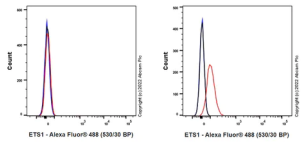
We do not recommend this combination. It is not covered by our product promise.

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.

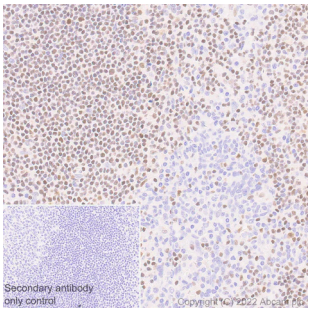
Full details and terms and conditions can be found here:
Terms & Conditions.

12 product images



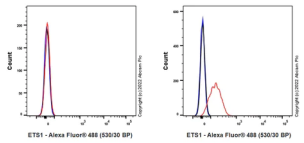
Flow Cytometry (Intracellular) - Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

This data was developed using ab307672, the same antibody clone in a different buffer formulation. Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized K562 (human chronic myelogenous leukemia lymphoblast, Left) / Daudi (human Burkitt's lymphoma lymphoblast, Right) cells labelling ETS1 with ab307672 at 1/50 dilution (1ug) (Red) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody. Negative control: K562 (PMID:22107829)



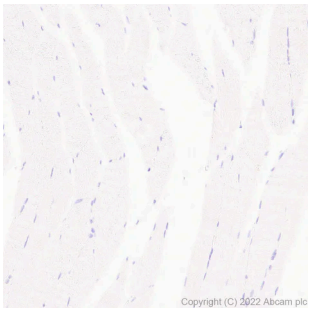
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

This data was developed using ab307672, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling ETS1 with ab307672 at 1/100 (5.3 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on human tonsil. The section was incubated with ab307672 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 (Intracellular) - Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

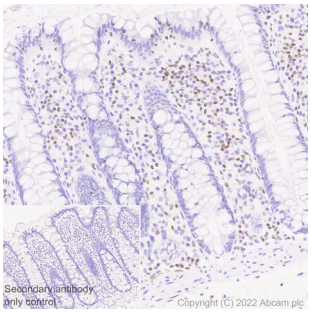
This data was developed using ab307672, the same antibody clone in a different buffer formulation. Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HepG2 (human hepatocellular carcinoma epithelial cell, Left) / Jurkat (human T cell leukemia T lymphocyte, Right) cells labelling ETS1 with ab307672 at 1/50 dilution (1ug) (Red) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody. Negative control: HepG2 (PMID:30790340)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

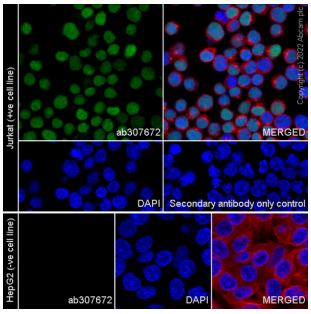
ETS1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-ETS1 antibody

This data was developed using ab307672, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human skeletal muscl tissue labeling ETS1 with ab307672 at 1/100 (5.3 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Negative control: No staining on human skeletal muscle. The section was incubated with ab307672 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



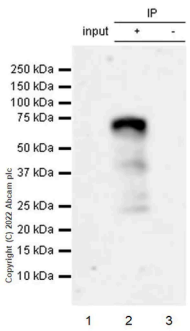
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

This data was developed using ab307672, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling ETS1 with ab307672 at 1/100 (5.3 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on immune cells in human colon. The section was incubated with ab307672 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-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

This data was developed using ab307672, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Jurkat (human T cell leukemia T lymphocyte) cells labelling ETS1 with ab307672 at 1/250 (2.12 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 ug/ml dilution (Green). Confocal image showing nuclear staining in Jurkat cell line, no staining was observed in HepG2 cell line.Negative control: HepG2 (PMID: 30790340).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 2.5ug/ml dilution (Red). 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 2 ug/ml dilution.



Immunoprecipitation - Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

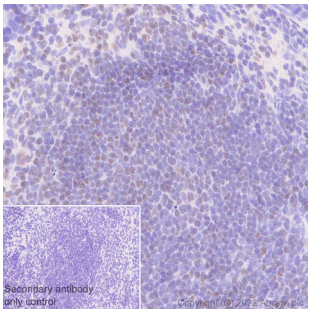
This data was developed using ab307672, the same antibody clone in a different buffer formulation. ETS1 was immunoprecipitated from 0.35 mg Daudi whole cell lysate with ab307672 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab307672 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution. Lane 1: Daudi (human Burkitt's lymphoma lymphoblast) whole cell lysate Lane 2: ab307672 IP in Daudi whole cell lysate Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab307672 in Daudi whole cell lysate Blocking and dilution buffer and concentration: 5% NFDM/TBST. Exposure time: 58 seconds
All lanes:
Immunoprecipitation - Anti-ETS1 antibody [EPR27353-81] (ab307672) at 1/30 dilution

All lanes:
Daudi (human Burkitt's lymphoma lymphoblast) whole cell lysate

Secondary

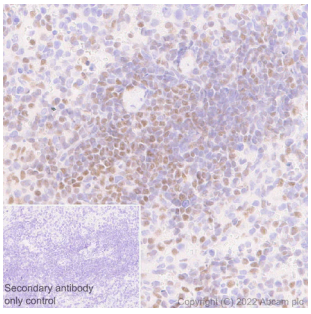
All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Exposure time: 58s



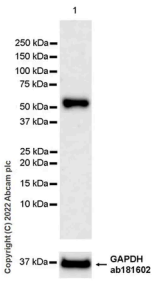
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

This data was developed using ab307672, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling ETS1 with ab307672 at 1/100 (5.3 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on mouse spleen (PMID: 17339335). The section was incubated with ab307672 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-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

This data was developed using ab307672, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling ETS1 with ab307672 at 1/100 (5.3 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on rat spleen. The section was incubated with ab307672 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



Western blot - Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

This data was developed using ab307672, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST Exposure time: 169 seconds
All lanes:
Western blot - Anti-ETS1 antibody [EPR27353-81] (ab307672) at 1/1000 dilution

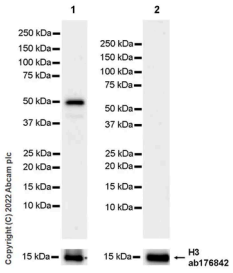
All lanes:
Human lymph node tissue lysate at 20 µg

Secondary

All lanes:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Observed band size: 51 kDa

Exposure time: 169s



Western blot - Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

This data was developed using ab307672, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST Negative control: HepG2 (PMID:30790340) Lysates were freshly made and used for Western blotting immediately to minimize protein degradation. Exposure time: 125 seconds
All lanes:
Western blot - Anti-ETS1 antibody [EPR27353-81] (ab307672) at 1/1000 dilution

Lane 1:
Daudi (human Burkitt’ s lymphoma lymphoblast) whole cell lysate at 20 µg

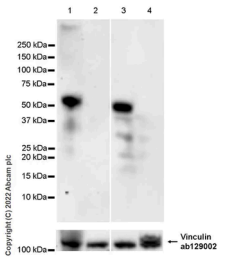
Lane 2:
HepG2 (human hepatocellar carcinoma epithelial cell)whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 51 kDa

Exposure time: 125s



Western blot - Anti-ETS1 antibody [EPR27353-81] - BSA and Azide free (ab307673)

ETS1 Western blot staining using rabbit Anti-ETS1 antibody

This data was developed using ab307672, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST Negative control: skeletal muscle Exposure time: Lane 1 and 2: 92 seconds, Lane 3 and 4: 48 seconds
All lanes:
Western blot - Anti-ETS1 antibody [EPR27353-81] (ab307672) at 1/1000 dilution

Lane 1:
Mouse lymph node tissue lysate at 40 µg

Lane 2:
Mouse skeletal muscle tissue lysate at 40 µg

Lane 3:
Rat lymph node tissue lysate at 40 µg

Lane 4:
Rat skeletal muscle tissue lysate at 40 µg

Secondary

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

Observed band size: 51 kDa

Exposure time: 48s

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