abcam

ab238960

Anti-TRADD antibody [EPR3604] - 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	EPR3604
Purification technique	Affinity purification Protein A
Concentration	0.992 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	Perform antigen retrieval before commencing with IHC staining protocol.

WB

Expected

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

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	For Mouse this antibody is recommended for WB only.

Target data

See full target information TRADD

Function	Adapter molecule for TNFRSF1A/TNFR1 that specifically associates with the cytoplasmic domain of activated TNFRSF1A/TNFR1 mediating its interaction with FADD (PubMed:23955153, PubMed:7758105, PubMed:8612133). Overexpression of TRADD leads to two major TNF-induced responses, apoptosis and activation of NF-kappa-B (PubMed:7758105, PubMed:8612133). The nuclear form acts as a tumor suppressor by preventing ubiquitination and degradation of isoform p19ARF/ARF of CDKN2A by TRIP12: acts by interacting with TRIP12, leading to disrupt interaction between TRIP12 and isoform p19ARF/ARF of CDKN2A (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab238960 is the carrier-free version of ab110644.

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	TRADD also known as TNFRSF1A-associated via death domain acts mechanically as an adaptor protein that interacts with tumor necrosis factor receptor 1 (TNFR1) and other signaling molecules. It has a mass of approximately 34 kDa. TRADD is expressed in various tissues including the spleen thymus and liver. It contributes to cellular responses by serving as an important component in TNF receptor signaling.

Biological function summary	The adaptor protein TRADD facilitates the transmission of death and survival signals from TNFR1. It forms part of a signaling complex that contributes to the activation of downstream pathways involved in apoptosis and inflammation. By interacting with other adaptor proteins like RIPK1 and FADD TRADD plays a role in assembling signaling complexes that govern cell fate decisions.
Pathways	TRADD is a pivotal player in both the TNF signaling and NF-kB pathways. In the TNF signaling pathway TRADD recruits RIPK1 and FADD leading to downstream activation of caspases and the apoptotic response. In the NF-kB pathway TRADD facilitates the activation of transcription factors that control genes involved in inflammatory responses. These interactions enable TRADD to mediate signals that influence cell survival proliferation and immune responses.
Associated diseases and disorders	Dysfunction or overexpression of TRADD has connections to various conditions particularly cancer and autoimmune diseases. In cancer aberrant TNF signaling involving TRADD may promote survival and accumulation of malignant cells with overlapping involvement of NF-kB. Autoimmune diseases may arise when altered TRADD function affects inflammatory responses through interactions with TNFR1 and downstream NF-kB mediators. Understanding TRADD's role provides opportunities for therapeutic targeting in these health issues.

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

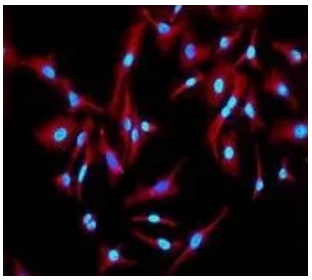
We do not recommend this combination. It is not covered by our product promise.

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.

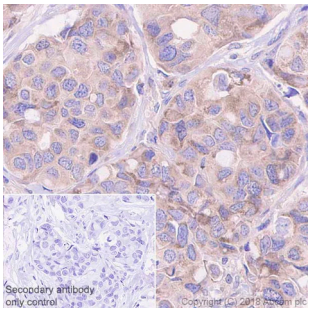
5 product images



Immunocytochemistry/ Immunofluorescence - Anti-TRADD antibody [EPR3604] - BSA and Azide free (ab238960)

TRADD Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TRADD antibody

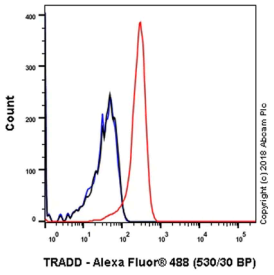
ab110644, at 1/100, staining TRADD in HeLa cells by Immunofluorescence.This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab110644).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRADD antibody [EPR3604] - BSA and Azide free (ab238960)

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

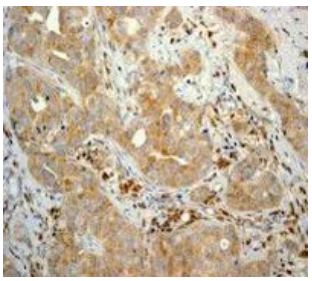
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue sections labeling TRADD with purified ab110644 at 1/850 dilution (0.7 µg/ml). Perform heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab110644)



Flow Cytometry (Intracellular) - Anti-TRADD antibody [EPR3604] - BSA and Azide free (ab238960)

TRADD Flow Cytometry (Intracellular) staining using rabbit Anti-TRADD antibody

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling TRADD with purified ab110644 at 1/600 dilution (1 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue). This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab110644)

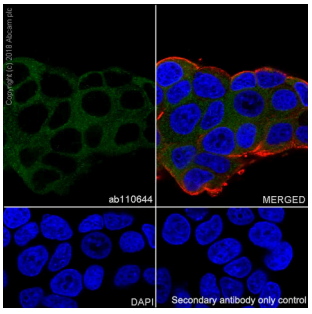


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRADD antibody [EPR3604] - BSA and Azide free (ab238960)

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

ab110644, at 1/100, staining TRADD in paraffin-embedded human breast carcinoma tissue by Immunohistochemistry.
This data was developed using the same antibody clone in a different buffer formulation containing Tris glycine, Tissue culture supernatant, BSA, glycerol and sodium azide (ab110644).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-TRADD antibody [EPR3604] - BSA and Azide free (ab238960)

TRADD Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TRADD antibody

Immunocytochemistry/ Immunofluorescence analysis of MCF7(Human breast adenocarcinoma epithelial cell) cells labeling TRADD with purified ab110644 at 1/100 dilution (6 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab110644)

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