abcam

ab250287

Anti-TG6 antibody [EPR10308] - 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	EPR10308
Purification technique	Affinity purification Protein A

Reactivity data

ICC/IF

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human, Mouse
Dilution info	-
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Predicted

Species	Rat
Dilution info	-

Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Predicted

Species	Rat
Dilution info	-
Notes	-

Target data

See full target information TGM6

Function	Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins.

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

ab250287 is the carrier-free version of ab180959.

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.

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

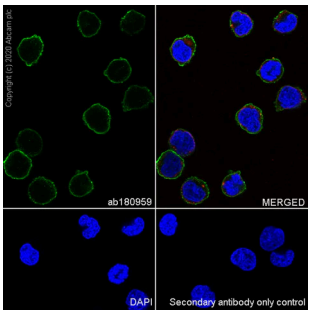
We do not recommend this combination. It is not covered by our product promise.

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.

4 product images

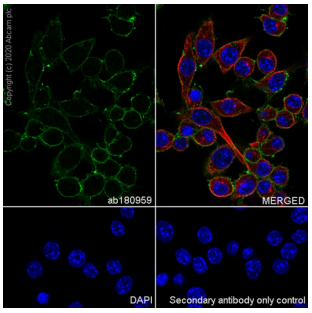


Immunocytochemistry/ Immunofluorescence - Anti-TG6 antibody [EPR10308] - BSA and Azide free (ab250287)

TG6 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TG6 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized MOLT-4 cells labelling TG6 with ab180959 at 1/50 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (2 µg/mL) (Green). Confocal image showing membranous staining in MOLT-4 cell line. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (2.5 µg/mL) (Red). The nuclear counterstain was DAPI (Blue).
Secondary antibody only control: PBS instead of the primary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab180959).

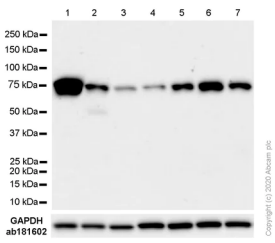


Immunocytochemistry/ Immunofluorescence - Anti-TG6 antibody [EPR10308] - BSA and Azide free (ab250287)

TG6 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TG6 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Raw 264.7 cells labelling TG6 with ab180959 at 1/50 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (2 µg/mL) (Green). Confocal image showing membranous staining in RAW 264.7 cell line. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (2.5 µg/mL) (Red). The nuclear counterstain was DAPI (Blue).
Secondary antibody only control: PBS instead of the primary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab180959).



Western blot - Anti-TG6 antibody [EPR10308] - BSA and Azide free (ab250287)

TG6 Western blot staining using rabbit Anti-TG6 antibody

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

Exposure time: 70 s

All lanes:

Western blot - Anti-TG6 antibody [EPR10308] - N-terminal (ab180959) at 1/1000 dilution

Lane 1:
MOLT-4 (Human lymphoblastic leukemia T lymphoblast) cell lysate at 10 µg

Lane 2:
Human kidney lysate at 10 µg

Lane 3:
Mouse kidney lysate at 10 µg

Lane 4:
CTLL-2 (Mouse T lymphocyte) cell lysate at 10 µg

Lane 5:
EL4 (Mouse lymphoma T lymphocyte) cell lysate at 10 µg

Lane 6:
RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) cell lysate at 10 µg

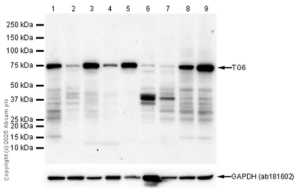
Lane 7:
NIH/3T3 (Mouse embryonic fibroblast) cell lysate at 10 µg

Secondary

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

Predicted band size: 79 kDa

Observed band size: 75 kDa



Western blot - Anti-TG6 antibody [EPR10308] - BSA and Azide free (ab250287)

TG6 Western blot staining using rabbit Anti-TG6 antibody

This data was developed using ab180959, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/1000000 dilution.

This antibody showed positive in mouse kidney, aorta and heart, weak in skeletal muscle and liver which is consistent with PMID:22194042. And it detected signals were increased in the Neuro-2a differentiated group which is consistent with PMID: 21984379.

All lanes:
Western blot - Anti-TG6 antibody [EPR10308] - N-terminal (ab180959) at 1/1000 dilution

Lane 1:
RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) cell lysate at 20 µg

Lane 2:
Mouse cerebellum tissue lysate at 20 µg

Lane 3:
Mouse kidney tissue lysate at 20 µg

Lane 4:

Mouse heart tissue lysate at 20 µg

Lane 5:
Mouse aorta tissue lysate at 20 µg

Lane 6:
Mouse skeletal muscle tissue lysate at 20 µg

Lane 7:
Mouse liver tissue lysate at 20 µg

Lane 8:
Undifferentiated Neuro-2a (Mouse neuroblastoma neuroblast) whole cell lysate at 20 µg

Lane 9:
Neuro-2a differentiated for 72 hours 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: 75 kDa

Exposure time: 180s

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