abcam

ab251027

Anti-EDIL3/DEL1 antibody [EPR12451] - 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	EPR12451
Concentration	1.027 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

IP

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

WB

Tested

Species	Rat, Human
Dilution info	-
Notes	-

Expected

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

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Target data

See full target information EDIL3

Function	Promotes adhesion of endothelial cells through interaction with the alpha-v/beta-3 integrin receptor. Inhibits formation of vascular-like structures. May be involved in regulation of vascular morphogenesis of remodeling in embryonic development.

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

ab251027 is the carrier-free version of ab190692.

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	The protein EDIL3 also known as DEL1 or del-1 protein is a secreted extracellular matrix protein with a mass of approximately 52 kDa. It is expressed highly in endothelial cells and has a significant presence during embryonic development particularly within the arteries. As a versatile protein EDIL3 plays a role in promoting cell adhesion through interaction with integrins. This interaction makes it important for cellular communication and structural support in various tissues.
Biological function summary	EDIL3 influences vascular development and angiogenesis. It is not generally part of a large protein complex but works independently to support endothelial cell survival and proliferation. It binds preferentially to integrins like alphavbeta3 and alphavbeta5. This binding initiates intracellular signaling cascades that activate pathways responsible for cell growth and migration. EDIL3 therefore contributes to stabilizing newly formed blood vessels which is essential during developmental processes.
Pathways	EDIL3 plays a role in the regulation of several signaling networks including the MAPK and PI3K/AKT pathways. In these pathways it assists angiogenesis and endothelial cell function by activating signaling that promotes cell division and survival. EDIL3-related pathway interactions involve proteins such as VEGF an important factor in angiogenesis which also partners with integrins to enhance vascular development and repair processes.

Associated diseases and disorders	EDIL3 has implications in cancer and inflammatory diseases. In cancer EDIL3 aids the formation of new blood vessels that supply nutrients to tumors promoting their growth and metastasis. It partners with the VEGF protein to enhance angiogenic processes in tumor environments. Inflammatory diseases such as rheumatoid arthritis show elevated levels of EDIL3 where it encourages pro-inflammatory responses through endothelial cell interactions. Here EDIL3 might interact with proteins involved in inflammatory pathways exacerbating disease progression.

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

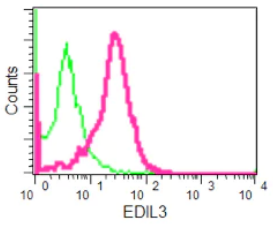
We do not recommend this combination. It is not covered by our product promise.

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.

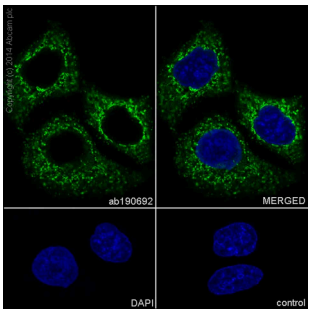
5 product images



Flow Cytometry (Intracellular) - Anti-EDIL3/DEL1 antibody [EPR12451] - BSA and Azide free (ab251027)

EDIL3/DEL1 Flow Cytometry (Intracellular) staining using rabbit Anti-EDIL3/DEL1 antibody

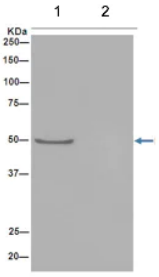
This data was developed using ab190692, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 2% paraformaldehyde HeLa cells labeling EDIL3/DEL1 with ab190692 at 1/340 dilution (red) compared to a Rabbit monoclonal IgGcontrol antibody (green). Secondary staining with Goat anti Rabbit IgG (FITC).



Immunocytochemistry/ Immunofluorescence - Anti-EDIL3/DEL1 antibody [EPR12451] - BSA and Azide free (ab251027)

EDIL3/DEL1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-EDIL3/DEL1 antibody

This data was developed using ab190692, the same antibody clone in a different buffer formulation.
Immunofluorescent staining of 4% paraformaldehyde fixed Hela cells labeling EDIL3/DEL1 with ab190692 at 1/250 dilution (green) and DAPI nuclear staining (blue). Secondary staining with Goat anti Rabbit IgG (Alexa Fluor® 488). The image also shows negative control cells.

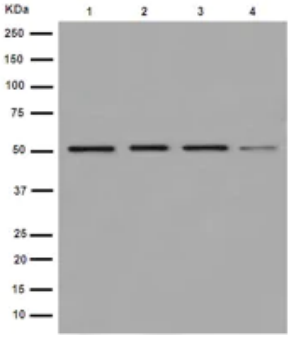


Immunoprecipitation - Anti-EDIL3/DEL1 antibody [EPR12451] - BSA and Azide free (ab251027)

This data was developed using ab190692, the same antibody clone in a different buffer formulation.
Immunoprecipitation analysis of HeLa cell lysate labeling EDIL3/DEL1 with ab190692 at 1/50 dilution (lane 1) compared to a PBS control (lane 2). Secondary staining with anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG antibody at 1/1500 dilution.

All lanes:
Immunoprecipitation - Anti-EDIL3/DEL1 antibody [EPR12451] (ab190692)

Predicted band size: 54 kDa



Western blot - Anti-EDIL3/DEL1 antibody [EPR12451] - BSA and Azide free (ab251027)

EDIL3/DEL1 Western blot staining using rabbit Anti-EDIL3/DEL1 antibody

This data was developed using ab190692, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-EDIL3/DEL1 antibody [EPR12451] (ab190692) at 1/10000 dilution

Lane 1:
HeLa cell lysate at 20 µg

Lane 2:
HUVEC cell lysate at 20 µg

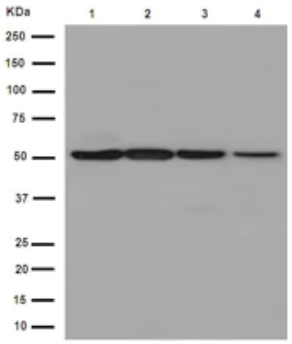
Lane 3:
BxPC-3 cell lysate at 20 µg

Lane 4:
293 cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 54 kDa



Western blot - Anti-EDIL3/DEL1 antibody [EPR12451] - BSA and Azide free (ab251027)

EDIL3/DEL1 Western blot staining using rabbit Anti-EDIL3/DEL1 antibody

This data was developed using ab190692, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-EDIL3/DEL1 antibody [EPR12451] (ab190692) at 1/1000 dilution

Lane 1:
C6 cell lysate at 10 µg

Lane 2:
RAW 264.7 cell lysate at 10 µg

Lane 3:
PC-12 cell lysate at 10 µg

Lane 4:
NIH/3T3 cell lysate at 10 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 54 kDa

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