abcam

ab179801

Anti-Embigin homolog antibody [EPR11417]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR11417
Purification technique	Affinity purification Protein A
Concentration	1.141 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human
Dilution info	-
Notes	-

Target data

See full target information EMB

Function	Plays a role in the outgrowth of motoneurons and in the formation of neuromuscular junctions. Following muscle denervation, promotes nerve terminal sprouting and the formation of additional acetylcholine receptor clusters at

synaptic sites without affecting terminal Schwann cell number or morphology. Delays the retraction of terminal sprouts following re-innervation of denervated endplates. May play a role in targeting the monocarboxylate transporters SLC16A1, SLC16A6 and SLC16A7 to the cell membrane (By similarity).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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.

Supplementary info

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

Activity summary	The Embigin homolog protein often referred to simply as Embigin plays an important mechanical role within the cell. It is a transmembrane protein with a

	molecular mass of approximately 41 kDa. Researchers have observed Embigin expressed mostly in the tissues of the developing central nervous system and muscle tissues. It is also detected in adult tissues but in distinct expression patterns including the heart and the testis.
Biological function summary	Embigin is involved in the regulation of cell adhesion and proliferation. It is not generally part of a larger protein complex but acts as a facilitator of cellular interactions particularly during tissue morphogenesis and development. Embigin's role in promoting cell aggregation involves interaction with other cell surface proteins influencing cellular dynamics during development.
Pathways	Embigin plays a role in the integrin signaling pathway. It interacts with integrins which are transmembrane receptors involved in cell adhesion sending signals that regulate the cytoskeleton and the cell cycle. Another pathway related to Embigin's function is the PI3K/Akt signaling pathway. Through this pathway Embigin indirectly influences cellular survival and growth processes closely interacting with signaling proteins like PI3K.
Associated diseases and disorders	Researchers have linked Embigin to cancer and neurodegenerative conditions. Changes in Embigin expression have been connected to various cancers as the protein influences cell adhesion and migration which are critical in tumor progression. In neurodegenerative diseases altered expression of Embigin affects cellular interactions in neural tissues relating to proteins like the neural cell adhesion molecule which further impacts neural health and connectivity.

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.

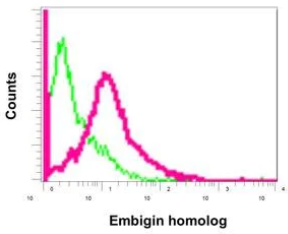
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

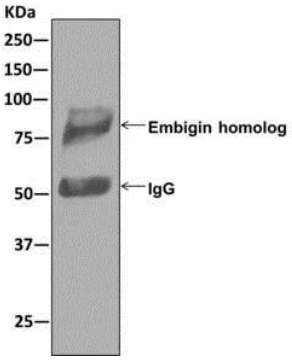
3 product images



Flow Cytometry - Anti-Embigin homolog antibody [EPR11417] (ab179801)

Embigin homolog Flow Cytometry staining using rabbit Anti-Embigin homolog antibody

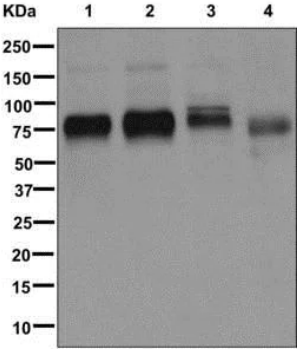
Flow cytometric analysis of 293T cells labeling Embigin homolog with ab179801 at 1/10 dilution (red) compared to a rabbit IgG negative control (green).



Immunoprecipitation - Anti-Embigin homolog antibody [EPR11417] (ab179801)

Western blot analysis on immunoprecipitation pellet from Jurkat cell lysate using ab179801.
All lanes:
Immunoprecipitation - Anti-Embigin homolog antibody [EPR11417] (ab179801)

Predicted band size: 37 kDa



Western blot - Anti-Embigin homolog antibody [EPR11417] (ab179801)

Embigin homolog Western blot staining using rabbit Anti-Embigin homolog antibody

All lanes:
Western blot - Anti-Embigin homolog antibody [EPR11417] (ab179801) at 1/1000 dilution

Lane 1:
293T (Human embryonic kidney epithelial cell) cell lysate at 10 µg

Lane 2:
Jurkat cell lysate at 10 µg

Lane 3:
MCF7 cell lysate at 10 µg

Lane 4:
LNCaP cell lysate at 10 µg

Predicted band size: 37 kDa

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