abcam

ab249746

Anti-CELF-6 antibody [EPR10155] - 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	EPR10155
Purification technique	Affinity purification Protein A

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-
Notes	Use of a HRP/AP polymerized secondary antibody is recommended.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information CELF6

Function	RNA-binding protein implicated in the regulation of pre-mRNA alternative splicing. Mediates exon inclusion and/or exclusion in pre-mRNA that are subject to tissue-specific and developmentally regulated alternative splicing. Specifically activates exon 5 inclusion of TNNT2 in a muscle-specific splicing enhancer (MSE)-dependent manner. Promotes also exon exclusion of INSR pre-mRNA.

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

ab249746 is the carrier-free version of ab173282.

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	CELF-6 also known as CUGBP Elav-like family member 6 is a protein with a mass of approximately 55 kDa. This protein is part of the CELF family which includes members like CELF-5. CELF-6 is mainly expressed in the brain and plays roles involving post-transcriptional regulation of gene expression. It functions through binding RNA elements specifically regulating alternative splicing mRNA editing and translation. This protein significantly impacts RNA processing events helping maintain proper cellular function.
Biological function summary	CELF-6 participates in controlling neuronal cell differentiation and function. It acts as a dynamic RNA-binding protein that can form part of larger ribonucleoprotein complexes influencing the fate of specific mRNAs. Through regulation of mRNA splicing and stability CELF-6 ensures that neurons develop and function properly. Studies have noted its substantial role in brain development where it affects the expression of genes essential for neuronal pathways.
Pathways	CELF-6 influences post-transcriptional gene expression in neural tissues. CELF-6 is significantly involved in the MBNL1-mediated alternative splicing pathway and is known to modulate splicing activities. Its role overlaps with proteins like CELF which also participate in splicing and RNA processing regulation. The interactions between CELF proteins within these pathways highlight complex regulatory networks essential for proper RNA metabolism and neural function.
Associated diseases and disorders	CELF-6 has been linked to neurodevelopmental disorders specifically autism spectrum disorder (ASD). Abnormal expression or function of CELF-6 can lead to disrupted neural gene expression linked to ASD. Comparisons with other CELF proteins especially CELF-1 underline their collective influence on neural health. Furthermore CELF-6 alterations have been associated with epilepsy suggesting its critical role in neural excitability and signaling. Studies continue to explore the

extent to which CELF-6 and its interactions contribute to the pathophysiology of such disorders.

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

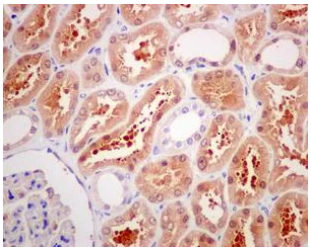
We do not recommend this combination. It is not covered by our product promise.

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

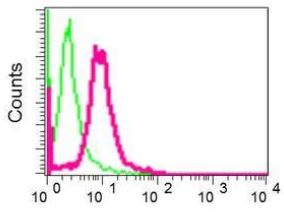


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CELF-6 antibody [EPR10155] - BSA and Azide free (ab249746)

CELF-6 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CELF-6 antibody

This data was developed using ab173282, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human kidney tissue, labeling CELF-6 using ab173282 at a 1/50 dilution.

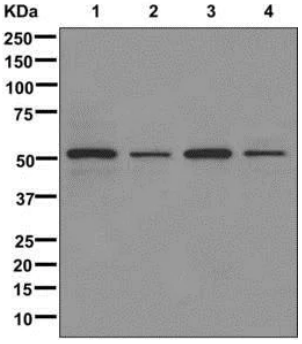
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-CELF-6 antibody [EPR10155] - BSA and Azide free (ab249746)

CELF-6 Flow Cytometry (Intracellular) staining using rabbit Anti-CELF-6 antibody

This data was developed using ab173282, the same antibody clone in a different buffer formulation.
Intracellular Flow Cytometry analysis of permeabilized 293T cells labeling CELF-6 (red), using ab173282 at a 1/10 dilution, or negative control rabbit IgG (green)



Western blot - Anti-CELF-6 antibody [EPR10155] - BSA and Azide free (ab249746)

CELF-6 Western blot staining using rabbit Anti-CELF-6 antibody

This data was developed using ab173282, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-CELF-6 antibody [EPR10155] (ab173282) at 1/1000 dilution

Lane 1:
Human fetal kidney lysate at 10 µg

Lane 2:
Human fetal brain lysate at 10 µg

Lane 3:
HepG2 cell lysate at 10 µg

Lane 4:
293T cell lysate at 10 µg

Secondary

All lanes:
Goat anti-rabbit HRP at 1/2000 dilution

Developed using the ECL technique.

Predicted band size: 50 kDa

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