abcam

ab170911

Anti-IGBP1 antibody [EPR12315]

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	EPR12315
Purification technique	Affinity purification Protein A
Concentration	0.723 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/5000
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	Antigen retrieval is recommended.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information IGBP1

Function	Associated to surface IgM-receptor; may be involved in signal transduction. Involved in regulation of the catalytic activity of the phosphatases PP2A, PP4 and PP6 by protecting their partially folded catalytic subunits from degradative polyubiquitination until they associate with regulatory subunits.

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

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 Insulin-like Growth Factor Binding Protein 1 (IGBP1) is a multifunctional protein involved in various cellular processes. It is also known as IGFBP-1 and has a molecular mass of approximately 31 kDa. IGBP1 is widely expressed in human tissues with higher levels detected in the liver and the endometrium. The protein plays a role in modulating the availability of insulin-like growth factors (IGFs) by binding to them affecting their function and stability within the body.
Biological function summary	Many cellular processes involve IGBP1 as it binds with insulin-like growth factors to modulate their actions effectively acting as a regulator within the IGF system. IGBP1 may influence cell growth survival and metabolism. It often interacts with other proteins within an IGF-binding complex allowing it to perform various regulatory functions that impact both normal and pathological conditions.
Pathways	Several signaling pathways incorporate the activities of IGBP1 particularly the insulin-like growth factor signaling pathway and the PI3K/AKT pathway. IGBP1 interacts with other proteins such as IGF1R and IRS-1 affecting downstream signaling that governs aspects of cell proliferation and survival. These interactions position IGBP1 as an important regulatory molecule in these pathways influencing cellular responses to IGFs.
Associated diseases and disorders	Research has linked abnormal levels or activities of IGBP1 with conditions such as diabetes and cancer. IGBP1's modulation of the insulin-like growth factors may affect insulin sensitivity and glucose metabolism contributing to diabetes pathogenesis. In cancer altered IGBP1 expression can influence tumor growth and progression where its relationship with IGF1 and IGF2 is significant in the context of growth factors and their signaling pathways.

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

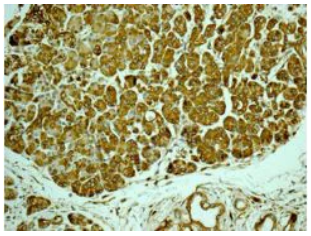
We do not recommend this combination. It is not covered by our product promise.

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.

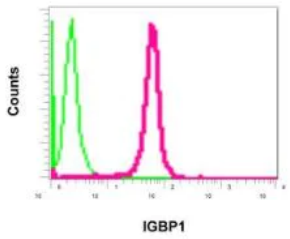
5 product images



Immunohistochemistry paraffin embedded sections - Anti-IGBP1 antibody [EPR12315] (ab170911)

IGBP1 Immunohistochemistry paraffin embedded sections staining using rabbit Anti-IGBP1 antibody

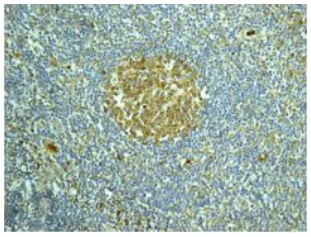
Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling IGBP1 using ab170911 at 1/100 dilution.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-IGBP1 antibody [EPR12315] (ab170911)

IGBP1 Flow Cytometry (Intracellular) staining using rabbit Anti-IGBP1 antibody

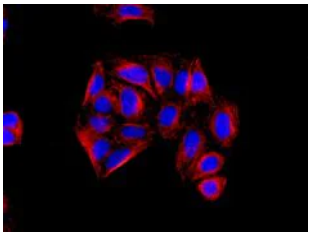
Intracellular flow cytometric analysis of permeabilized K562 cells labeling IGBP1 using ab170911 at 1/100 dilution (red)or a rabbit IgG negative (green).



Immunohistochemistry paraffin embedded sections - Anti-IGBP1 antibody [EPR12315] (ab170911)

IGBP1 Immunohistochemistry paraffin embedded sections staining using rabbit Anti-IGBP1 antibody

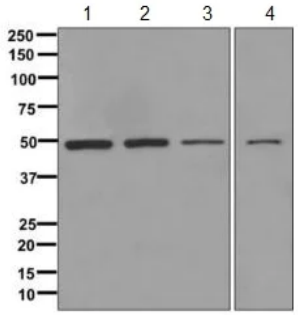
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling IGBP1 using ab170911 at 1/100 dilution.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-IGBP1 antibody [EPR12315] (ab170911)

IGBP1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-IGBP1 antibody

Immunofluorescent staining of HeLa cells labeling IGBP1 using ab170911 at 1/100 dilution (red). DAPI nuclear staining (blue).



Western blot - Anti-IGBP1 antibody [EPR12315] (ab170911)

All lanes:
Western blot - Anti-IGBP1 antibody [EPR12315] (ab170911) at 1/1000 dilution

Lane 1:
K562 cell lysate at 10 µg

Lane 2:
Jurkat cell lysate at 10 µg

Lane 3:
HeLa cell lysate at 10 µg

Lane 4:
Raji cell lysate at 10 µg

Predicted band size: 39 kDa

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