abcam

Product datasheet

Anti-IGF2BP2/IMP-2 antibody [EPR6741(B)] - BSA and Azide free ab246342

Recombinant RabMAb

5 Images

Overview

Product name	Anti-IGF2BP2/IMP-2 antibody [EPR6741(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR6741(B)] to IGF2BP2/IMP-2 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	293T, Caco2, HepG2, and SH SY5Y cell lysates, rat brain and mouse heart lysate; Human colon and human lung carcinoma tissue.
General notes	ab246342 is the carrier-free version of **ab124930**. The mouse and rat recommendation is based on the WB results. This antibody may not be suitable for IHC with mouse or rat samples. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. 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. 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. 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 production For more information **see here**.

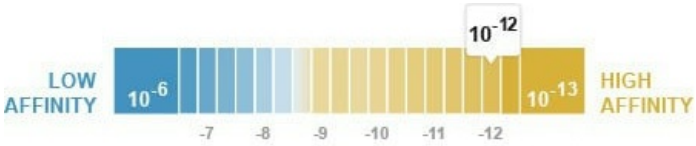
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C. Do Not Freeze.

Dissociation constant (K_D) $K_D = 4.00 \times 10^{-12}$ M



Learn more about K_D

Storage buffer pH: 7.2
Constituent: PBS

Carrier free Yes

Purity Protein A purified

Clonality Monoclonal

Clone number EPR6741(B)

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab246342 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 55-65 kDa (predicted molecular weight: 66 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
ICC/IF		Use at an assay dependent concentration.

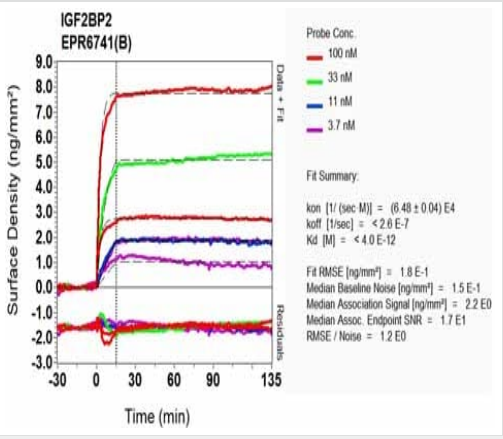
Target

Function Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs. Binding is isoform-specific. May regulate translation of target mRNAs.

Tissue specificity Expressed in oocytes, granulosa cells of small and growing follicles, Leydig cells, spermatogonia and semen (at protein level). Expressed in testicular cancer (at protein level). Expressed weakly in heart, placenta, skeletal muscle, bone marrow, colon, kidney, salivary glands, testis and pancreas.

	Detected in fetal liver, fetal ovary, gonocytes and interstitial cells of the testis.
Sequence similarities	Belongs to the RRM IMP/VICKZ family. Contains 4 KH domains. Contains 2 RRM (RNA recognition motif) domains.
Domain	The third and fourth KH domains are important for binding to the untranslated region (UTR) of target mRNA.
Cellular localization	Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Localizes at the connecting piece and the tail of the spermatozoa.

Images



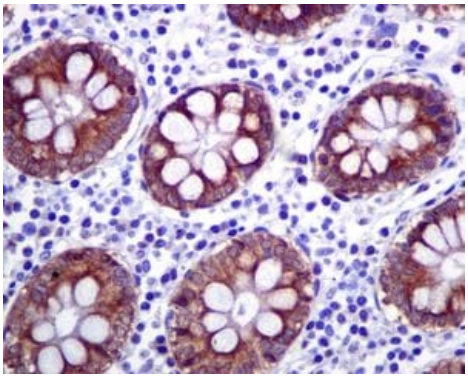
OI-RD Scanning - Anti-IGF2BP2/IMP-2 antibody [EPR6741(B)] - BSA and Azide free (ab246342)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124930**).

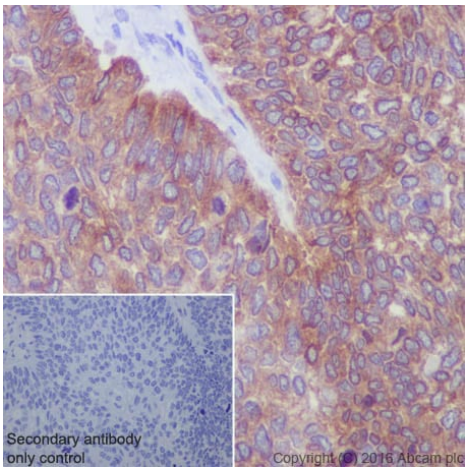


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IGF2BP2/IMP-2 antibody [EPR6741(B)] - BSA and Azide free (ab246342)

ab124930 (unpurified), at 1/50 dilution, staining IGF2BP2/IMP-2 in formalin-fixed, paraffin-embedded Human colon tissue by immunohistochemistry.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124930**).

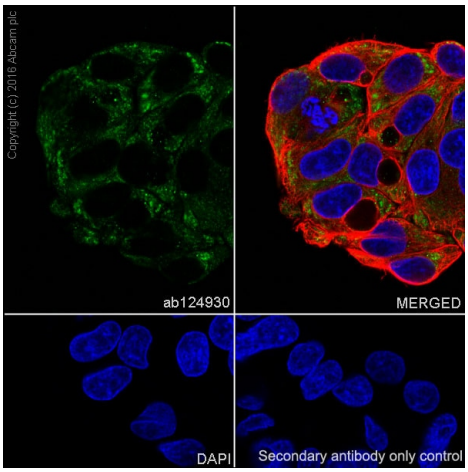
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IGF2BP2/IMP-2 antibody [EPR6741(B)] - BSA and Azide free (ab246342)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue sections labeling IGF2BP2/IMP-2 with purified **ab124930** at 1/200 dilution (4.8 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. Hematoxylin was used to counter stain. ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody at 1/0 dilution. PBS instead of the primary antibody was used as the negative control.

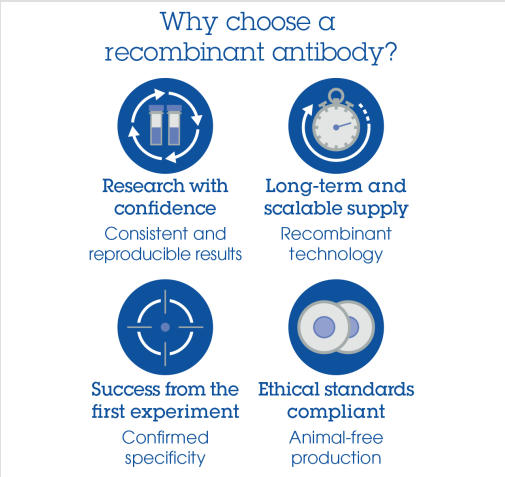
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124930**).



Immunocytochemistry/ Immunofluorescence - Anti-IGF2BP2/IMP-2 antibody [EPR6741(B)] - BSA and Azide free (ab246342)

Immunocytochemistry/Immunofluorescence analysis of HepG2 (Human liver hepatocellular carcinoma cell line) cells labeling IGF2BP2/IMP-2 with purified **ab124930** at 1/250 dilution (3.8µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889**, an anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 (2.5 µg/ml). **ab150077**, a Goat anti-rabbit IgG (Alexa Fluor® 488) was used as the secondary antibody at 1/1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124930**).



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