

Product datasheet

Anti-IMP3 antibody [EPR12021] (HRP) ab208869

KO VALIDATED Recombinant RabMAb

2 Images

Overview

Product name	Anti-IMP3 antibody [EPR12021] (HRP)
Description	Rabbit monoclonal [EPR12021] to IMP3 (HRP)
Host species	Rabbit
Conjugation	HRP
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat
Immunogen	Recombinant fragment within Human IMP3. The exact sequence is proprietary. Database link: O00425
Positive control	WB: HeLa, HEK293 cell lysates
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.4 Preservative: 0.1% Proclin Constituents: PBS, 30% Glycerol, 1% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR12021
Isotype IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab208869** 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		1/5000. Detects a band of approximately 70 kDa (predicted molecular weight: 63 kDa).

Target

Function RNA-binding protein that act as a regulator of mRNA translation and stability. Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs. Binds to sequences in the 3'-UTR of CD44 mRNA.

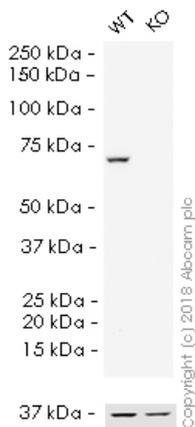
Tissue specificity Expressed in fetal liver, fetal lung, fetal kidney, fetal thymus, fetal placenta, fetal follicles of ovary and gonocytes of testis, growing oocytes, spermatogonia and semen (at protein level). Expressed in cervix adenocarcinoma, in testicular, pancreatic and renal-cell carcinomas (at protein level). Expressed ubiquitously during fetal development at 8 and 14 weeks of gestation. Expressed in ovary, testis, brain, placenta, pancreatic cancer tissues and pancreatic cancer cell lines.

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 Nucleus. Cytoplasm. Found in lamellipodia of the leading edge, in the perinuclear region, and beneath the plasma membrane. The subcytoplasmic localization is cell specific and regulated by cell contact and growth. Localized at the connecting piece and the tail of the spermatozoa. Colocalized with CD44 mRNA in RNP granules.

Images



Western blot - Anti-IMP3 antibody [EPR12021] (HRP) (ab208869)

All lanes : Anti-IMP3 antibody [EPR12021] (HRP) (ab208869) at 1/5000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : IGF2BP3 (IMP3) knockout HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

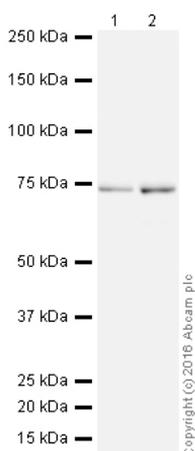
Predicted band size: 63 kDa

Observed band size: 70 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 3 minutes

ab208869 was shown to specifically react with IMP3 in wild-type HAP1 cells as signal was lost in IGF2BP3 (IMP3) knockout cells. Wild-type and IGF2BP3 (IMP3) knockout samples were subjected to SDS-PAGE. Ab208869 and [ab184095](#) (Mouse monoclonal [mAbcam 9484] to GAPDH - Loading Control (Alexa Fluor® 680) loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/20000 dilution respectively. The loading control was imaged using the Licor Odyssey CLx prior to blots being developed with ECL technique.



Western blot - Anti-IMP3 antibody [EPR12021] (HRP) (ab208869)

All lanes : Anti-IMP3 antibody [EPR12021] (HRP) (ab208869) at 1/5000 dilution

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 63 kDa

Observed band size: 70 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 15 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab208869 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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