

Product datasheet

Anti-IMP3 antibody ab89521

3 图像

概述

产品名称	Anti-IMP3抗体
描述	小鼠单克隆抗体to IMP3
宿主	Mouse
经测试应用	适用于: WB, ELISA, ICC/IF
种属反应性	与反应: Human
免疫原	Recombinant full length Human IMP3 (AAH65269, amino acids 1-579) with a proprietary tag.
阳性对照	K562 cell lysate. Tagged recombinant Human IMP3 protein.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: None Constituents: Ascites
纯度	Ascites
克隆	单克隆
同种型	IgM
轻链类型	kappa

应用

Our [Abpromise guarantee](#) covers the use of **ab89521** in the following tested applications.

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

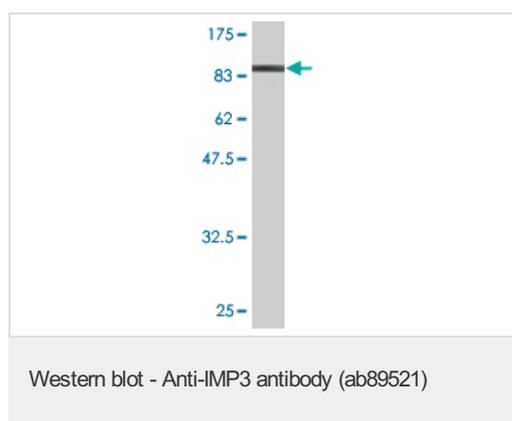
应用	Ab评论	说明
WB		1/500 - 1/1000. Detects a band of approximately 64 kDa (predicted molecular weight: 64 kDa).
ELISA		Use at an assay dependent dilution.

应用	Ab评论	说明
ICC/IF		Use a concentration of 1 µg/ml.

## 靶标

<b>功能</b>	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.
<b>组织特异性</b>	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.
<b>序列相似性</b>	Belongs to the RRM IMP/VICKZ family. Contains 4 KH domains. Contains 2 RRM (RNA recognition motif) domains.
<b>结构域</b>	The third and fourth KH domains are important for binding to the untranslated region (UTR) of target mRNA.
<b>细胞定位</b>	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.

## 图片

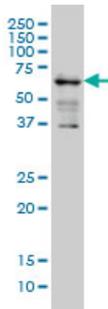


Anti-IMP3 antibody (ab89521) at 1/500 dilution + Tagged recombinant Human IMP3 protein at 0.2 µg

**Predicted band size:** 64 kDa

**Observed band size:** 90 kDa

Western blot against tagged recombinant protein immunogen. Predicted band size of immunogen is 90 kDa.



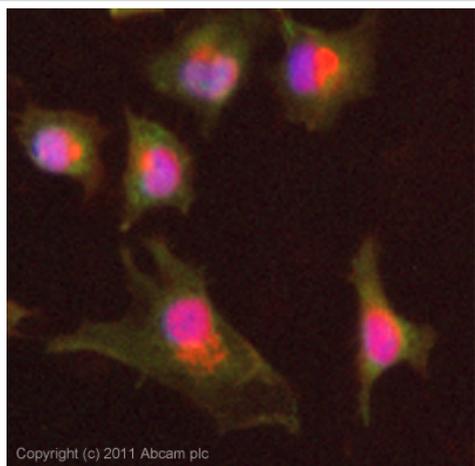
Western blot - Anti-IMP3 antibody (ab89521)

Anti-IMP3 antibody (ab89521) at 1/500 dilution + K562 cell lysate at 50 µg

**Predicted band size:** 64 kDa

**Observed band size:** 64 kDa

**Additional bands at:** 36 kDa, 46 kDa, 48 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-IMP3 antibody (ab89521)

ICC/IF image of ab89521 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab89521, 1 µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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