10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IGF2BP2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10127b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9Y6M1
Other Accession	Q5SF07, NP_001007226.1, NP_006539.3
Reactivity	Human, Mouse
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB21527
Calculated MW	66121
Antigen Region	530-556

Additional Information

Gene ID	10644
Other Names	Insulin-like growth factor 2 mRNA-binding protein 2, IGF2 mRNA-binding protein 2, IMP-2, Hepatocellular carcinoma autoantigen p62, IGF-II mRNA-binding protein 2, VICKZ family member 2, IGF2BP2, IMP2, VICKZ2
Target/Specificity	This IGF2BP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 530-556 amino acids from the C-terminal region of human IGF2BP2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	IGF2BP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IGF2BP2

Synonyms	IMP2, VICKZ2
Function	RNA-binding factor that recruits target transcripts to cytoplasmic protein-RNA complexes (mRNPs). This transcript 'caging' into mRNPs allows mRNA transport and transient storage. It also modulates the rate and location at which target transcripts encounter the translational apparatus and shields them from endonuclease attacks or microRNA-mediated degradation (By similarity). Preferentially binds to N6-methyladenosine (m6A)-containing mRNAs and increases their stability (PubMed:29476152). Binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs (PubMed:9891060). Binding is isoform- specific. Binds to beta-actin/ACTB and MYC transcripts. Increases MYC mRNA stability by binding to the coding region instability determinant (CRD) and binding is enhanced by m6A-modification of the CRD (PubMed:29476152).
Cellular Location	Nucleus. Cytoplasm. Cytoplasm, P-body. Cytoplasm, Stress granule. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Localizes at the connecting piece and the tail of the spermatozoa. In response to cellular stress, such as oxidative stress, recruited to stress granules
Tissue Location	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

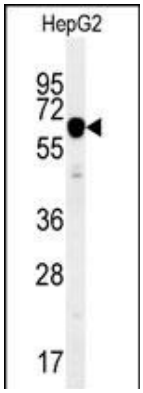
Background

This gene encodes a member of the IGF-II mRNA-binding protein (IMP) family. The protein encoded by this gene contains several four KH domains and two RRM domains. It functions by binding to the 5' UTR of the insulin-like growth factor 2 (IGF2) mRNA and regulating IGF2 translation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

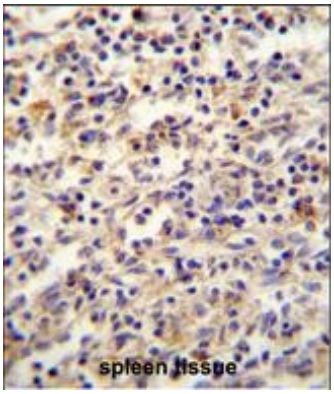
References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Pechlivanis, S., et al. Arterioscler. Thromb. Vasc. Biol. 30(9):1867-1872(2010)
Heni, M., et al. Diabetes (2010) In press :
Rodriguez, S., et al. Growth Horm. IGF Res. 20(4):310-318(2010)
Voight, B.F., et al. Nat. Genet. 42(7):579-589(2010)

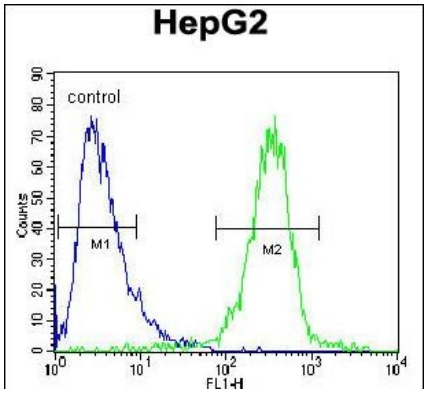
Images



IGF2BP2 Antibody (C-term) (Cat. #AP10127b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the IGF2BP2 antibody detected the IGF2BP2 protein (arrow).



IGF2BP2 antibody(C-term) (Cat. #AP10127b) immunohistochemistry analysis in formalin fixed and paraffin embedded human spleen tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the IGF2BP2 antibody(C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



IGF2BP2 Antibody (C-term) (Cat. #AP10127b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.