# ANTIBODIES ONLINE

## Datasheet for ABIN6266348 anti-IGF2BP1 antibody (N-Term)

2 Images



Overview

Quantity:	100 μL
Target:	IGF2BP1
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IGF2BP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

### Product Details

Immunogen:	A synthesized peptide derived from human IGF2BP1, corresponding to a region within N-terminal amino acids.
Isotype:	lgG
Specificity:	IGF2BP1 Antibody detects endogenous levels of total IGF2BP1.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).

Target Details

Target: IGF2BP1

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Target Details	
Alternative Name:	IGF2BP1 (IGF2BP1 Products)
Background:	Description: 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. Plays a direct role in the transport and translation of transcripts required for
	axonal regeneration in adult sensory neurons (By similarity). Regulates localized beta-
	actin/ACTB mRNA translation, a crucial process for cell polarity, cell migration and neurite
	outgrowth. Co-transcriptionally associates with the ACTB mRNA in the nucleus. This binding
	involves a conserved 54-nucleotide element in the ACTB mRNA 3'-UTR, known as the 'zipcode'.
	The RNP thus formed is exported to the cytoplasm, binds to a motor protein and is transported
	along the cytoskeleton to the cell periphery. During transport, prevents ACTB mRNA from being
	translated into protein. When the RNP complex reaches its destination near the plasma
	membrane, IGF2BP1 is phosphorylated. This releases the mRNA, allowing ribosomal 40S and
	60S subunits to assemble and initiate ACTB protein synthesis. Monomeric ACTB then
	assembles into the subcortical actin cytoskeleton (By similarity). During neuronal development,
	key regulator of neurite outgrowth, growth cone guidance and neuronal cell migration,
	presumably through the spatiotemporal fine tuning of protein synthesis, such as that of ACTB
	(By similarity). May regulate mRNA transport to activated synapses (By similarity). Binds to and
	stabilizes ABCB1/MDR-1 mRNA (By similarity). During interstinal wound repair, interacts with
	and stabilizes PTGS2 transcript. PTGS2 mRNA stabilization may be crucial for colonic mucosal
	wound healing (By similarity). Binds to the 3'-UTR of IGF2 mRNA by a mechanism of
	cooperative and sequential dimerization and regulates IGF2 mRNA subcellular localization and
	translation. Binds to MYC mRNA, in the coding region instability determinant (CRD) of the open
	reading frame (ORF), hence prevents MYC cleavage by endonucleases and possibly microRNA
	targeting to MYC-CRD. Binds to the 3'-UTR of CD44 mRNA and stabilizes it, hence promotes
	cell adhesion and invadopodia formation in cancer cells. Binds to the oncofetal H19 transcript
	and to the neuron-specific TAU mRNA and regulates their localizations. Binds to and stabilizes
	BTRC/FBW1A mRNA. Binds to the adenine-rich autoregulatory sequence (ARS) located in
	PABPC1 mRNA and represses its translation. PABPC1 mRNA-binding is stimulated by PABPC1
	protein. Prevents BTRC/FBW1A mRNA degradation by disrupting microRNA-dependent
	interaction with AGO2. Promotes the directed movement of tumor-derived cells by fine-tuning
	intracellular signaling networks. Binds to MAPK4 3'-UTR and inhibits its translation. Interacts
	with PTEN transcript open reading frame (ORF) and prevents mRNA decay. This combined
	action on MAPK4 (down-regulation) and PTEN (up-regulation) antagonizes HSPB1

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	phosphorylation, consequently it prevents G-actin sequestration by phosphorylated HSPB1,
	allowing F-actin polymerization. Hence enhances the velocity of cell migration and stimulates
	directed cell migration by PTEN-modulated polarization. Interacts with Hepatitis C virus (HCV)
	5'-UTR and 3'-UTR and specifically enhances translation at the HCV IRES, but not 5'-cap-
	dependent translation, possibly by recruiting eIF3. Interacts with HIV-1 GAG protein and blocks
	the formation of infectious HIV-1 particles. Reduces HIV-1 assembly by inhibiting viral RNA
	packaging, as well as assembly and processing of GAG protein on cellular membranes. During
	cellular stress, such as oxidative stress or heat shock, stabilizes target mRNAs that are
	recruited to stress granules, including CD44, IGF2, MAPK4, MYC, PTEN, RAPGEF2 and
	RPS6KA5 transcripts.
	Gene: IGF2BP1
Molecular Weight:	63kDa
Gene ID:	10642
UniProt:	Q9NZI8
Application Details	
Application Notae:	WP 1.500 1.2000 HC 1.50 1.200 ELISA(poptido) 1.20000 1.40000

Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

### Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

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#### Western Blotting

**Image 1.** Western blot analysis of Jurkat whole cell lysates, using IGF2BP1 Antibody. The lane on the left is treated with the antigen-specific peptide.



#### Immunohistochemistry

**Image 2.** ABIN6276701 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22<sub>j</sub>ãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary

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