Datasheet for ABIN3044421

anti-IGFBP3 antibody (Middle Region)

2 Images | 2 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	IGFBP3
Binding Specificity:	AA 182-198, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IGFBP3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Insulin-like growth factor-binding protein 3(IGFBP3) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human IGFBP-3(182-198aa IKKGHAKDSQRYKVDYE).
Sequence:	IKKGHAKDSQ RYKVDYE
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Insulin-like growth factor-binding protein 3(IGFBP3) detection. Tested with WB, IHC-P in Human. Gene Name: insulin-like growth factor binding protein 3 Protein Name: Insulin-like growth factor-binding protein 3(IBP-3/IGF-binding protein 3/IGFBP-3)

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	IGFBP3
Alternative Name:	IGFBP3 (IGFBP3 Products)
Background:	IGFBP3, Insulin-like growth fator-binding protein 3, is a member of the insulin-like growth factor binding protein(IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. IGFBP3 is located on chromosome 7. The protein forms a ternary complex with insulin-like growth factor acid-labile subunit(IGFALS) and either insulin-like growth factor(IGF) I or II. In this form, it circulates in the plasma, prolonging the half-life of IGFs and altering their interaction with cell surface receptors. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. Synonyms: Acid stable subunit of the 140 K IGF complex antibody|Binding protein 29 antibody|Binding protein 53 antibody|BP 53 antibody|BP53 antibody|Growth hormone dependent binding protein antibody|IBP 3 antibody|IBP-3 antibody|IBP3 antibody|IBP3_HUMAN antibody|IGF binding protein 3 antibody|IGF-binding protein 3 antibody|IGFBP 3 antibody|IGFBP-3 antibody|IGFBP3 antibody|Insulin Like Growth Factor Binding Protein 3 antibody|Insulin-like growth factor-binding protein 3 antibody
UniProt:	P17936
Pathways:	Myometrial Relaxation and Contraction, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development, Regulation of Carbohydrate Metabolic Process, Autophagy, Smooth Muscle Cell Migration, Growth Factor Binding

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

Application Details

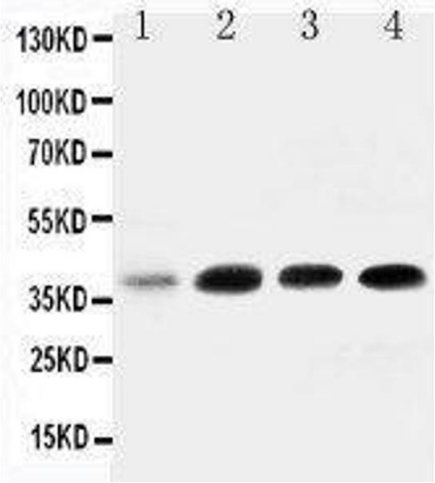
	ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

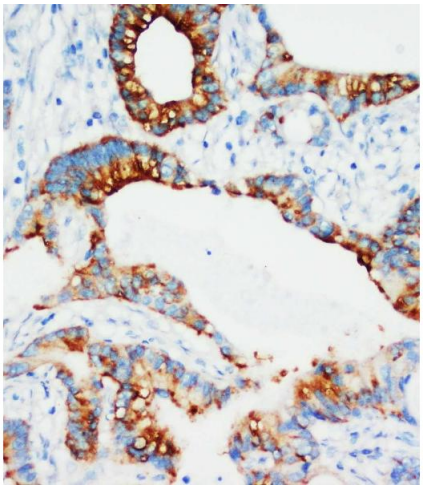
Publications

Product cited in:	Lang, Schulte, Goddard, Hedrick, Schulte, Wei, Schmiedt: "Transplantation of mouse embryonic stem cells into the cochlea of an auditory-neuropathy animal model: effects of timing after injury." in: **Journal of the Association for Research in Otolaryngology : JARO**, Vol. 9, Issue 2, pp. 225-40, (2008) (PubMed). Lang, Ebihara, Schmiedt, Minamiguchi, Zhou, Smythe, Liu, Ogawa, Schulte: "Contribution of bone marrow hematopoietic stem cells to adult mouse inner ear: mesenchymal cells and fibrocytes." in: **The Journal of comparative neurology**, Vol. 496, Issue 2, pp. 187-201, (2006) (PubMed).



Western Blotting

Image 1. Anti-IGFBP3 antibody, Western blotting All lanes: Anti IGFBP3 at 0.5ug/ml Lane 1: 293T Whole Cell Lysate at 40ug Lane 2: MCF- 7 Whole Cell Lysate at 40ug Lane 3: A549 Whole Cell Lysate at 40ug Lane 4: SW620 Whole Cell Lysate at 40ug Predicted bind size: 32KD Observed bind size: 40KD



Immunohistochemistry

Image 2. Anti-IGFBP3 antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue

