Datasheet for ABIN3042733

anti-IGFBP5 antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	IGFBP5
Binding Specificity:	AA 76-114, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IGFBP5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Insulin-like growth factor-binding protein 5(IGFBP5) detection. Tested with WB, ELISA in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human IGFBP5 (76-114aa QGLRCLPRQDEEKPLHALLHGRGVCLNEKSYREQVKIER), different from the related mouse and rat sequences by two amino acids.
Sequence:	QGLRCLPRQD EEKPLHALLH GRGVCLNEKS YREQVKIER
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Insulin-like growth factor-binding protein 5(IGFBP5) detection. Tested with WB, ELISA in Human. Gene Name: insulin-like growth factor binding protein 5

Product Details

	Protein Name: Insulin-like growth factor-binding protein 5
Purification:	Immunogen affinity purified.

Target Details

Target:	IGFBP5
Alternative Name:	IGFBP5 (IGFBP5 Products)
Background:	Insulin-like growth factor-binding protein 5 is a protein that in humans is encoded by the IGFBP5 gene. The expression of IGFBP5 by stable transfection and adenovirus-mediated infection is inhibitory to growth in 2 human breast cancer cell lines. IGFBP5 expression leads to G2/M cell cycle arrest and apoptosis. Stable expression of IGFBP5 in the breast cancer cell lines also inhibits the formation and growth of tumors following injection in athymic mice. It is concluded that IGFBP5 is a growth inhibitor and proapoptotic agent in breast cancer cells. Additionally, IGFBP-5 is expressed by fibroblasts, myoblasts and osteoblasts, making it the predominant IGFBP found in bone extracts. It has a strong affinity for hydroxyapatite, allowing it to bind to bone cells. When bound to extracellular matrix, IGFBP-5 is protected from proteolysis and potentiates IGF activity, but when it is soluble, IGFBP-5 is cleaved to a biologically inactive 21 kDa fragment (1, 2). Synonyms: IBP 5 antibody|IBP-5 antibody|IBP5 antibody|IBP5_HUMAN antibody|IGF binding protein 5 antibody|IGF BP5 antibody|IGF-binding protein 5 antibody|IGFBP 5 antibody|IGFBP-5 antibody|IGFBP5 antibody|Insulin like growth factor binding protein 5 antibody|Insulin-like growth factor-binding protein 5 antibody
Gene ID:	3488
UniProt:	P24593
Pathways:	WNT Signaling, Carbohydrate Homeostasis, Myometrial Relaxation and Contraction, 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 ELISA: Concentration: 0.1-0.5 µg/mL, Tested Species: Human Notes: Tested Species: Species with positive results.

Application Details

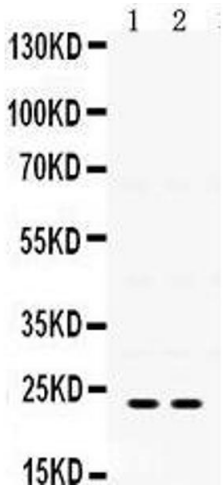
	Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

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 Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE 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.

Publications

Product cited in:	Wan, Ma, Mei, Shan: "The effects of HIF-1alpha on gene expression profiles of NCI-H446 human small cell lung cancer cells." in: **Journal of experimental & clinical cancer research : CR**, Vol. 28, pp. 150, (2010) (PubMed). Hou, Zhang, Liu, Meng, Qiao: "Expressions of IGFBP-5, cFLIP in cervical intraepithelial neoplasia, cervical carcinoma and their clinical significances: a molecular pathology." in: **Journal of experimental & clinical cancer research : CR**, Vol. 28, pp. 70, (2009) (PubMed).



Western Blotting

Image 1. Observed bind size: 23KD