Datasheet for ABIN968565

anti-IGFBP3 antibody (AA 101-210)

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Overview

Quantity:	50 µg
Target:	IGFBP3
Binding Specificity:	AA 101-210
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IGFBP3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human IGFBP-3 aa. 101-210
Clone:	4-IGFBP
Isotype:	IgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	IGFBP3
Alternative Name:	IGFBP-3 (IGFBP3 Products)
Background:	Insulin-like growth factors (IGF) I and II are peptide hormones that regulate cellular proliferation and differentiation. Most circulating IGFs exist in 130-150 kDa ternary complexes containing IGF-Binding Protein-3 (IGFBP-3) and an 85 kDa glycoprotein, the acid-labile subunit (ALS). IGFBP-3 is one of six IGFBPs that, by binding IGF peptides, prolong their half life and maintain the IGF reservoir. IGFBP-3 is found in body fluids as multiple 40-50 kDa forms as a result of differential glycosylation. The expression of IGFBP-3 in many tissues suggests that it locally modulates the autocrine/paracrine action of IGF peptides. IGFBP-3 binding to fibrinogen may be important for wound healing, since this concentrates IGF-I at wound sites and lowers the affinity of IGF-I for IGFBP-3. In addition, retinoic acid-induced IGFBP-3 expression inhibits the growth promoting effects of IGF-I in breast cancer cells. This may link the retinoid and IGF systems in cell growth regulation and explain how the loss of retinoic acid receptor beta leads to breast cancer progression. Thus, IGFBP-3 maintenance and regulation of IGF activity in various tissues may have diverse physiological roles. Synonyms: IGF-Binding Protein-3
Molecular Weight:	40 & 44 kDa
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

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % 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

Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

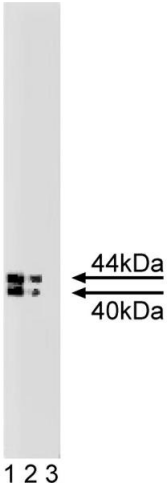
Campbell, Durham, Hayes, Suwanichkul, Powell: "Insulin-like growth factor-binding protein-3 binds fibrinogen and fibrin." in: **The Journal of biological chemistry**, Vol. 274, Issue 42, pp. 30215-21, (1999) (PubMed).

Janosi, Firth, Bond, Baxter, Delhanty: "N-Linked glycosylation and sialylation of the acid-labile subunit. Role in complex formation with insulin-like growth factor (IGF)-binding protein-3 and the IGFs." in: **The Journal of biological chemistry**, Vol. 274, Issue 9, pp. 5292-8, (1999) (PubMed).

Shang, Baumrucker, Green: "Signal relay by retinoic acid receptors alpha and beta in the retinoic acid-induced expression of insulin-like growth factor-binding protein-3 in breast cancer cells." in: **The Journal of biological chemistry**, Vol. 274, Issue 25, pp. 18005-10, (1999) (PubMed).

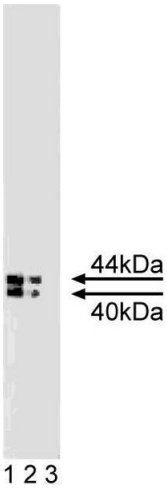
Cubbage, Suwanichkul, Powell: "Insulin-like growth factor binding protein-3. Organization of the human chromosomal gene and demonstration of promoter activity." in: **The Journal of biological chemistry**, Vol. 265, Issue 21, pp. 12642-9, (1990) (PubMed).

Images



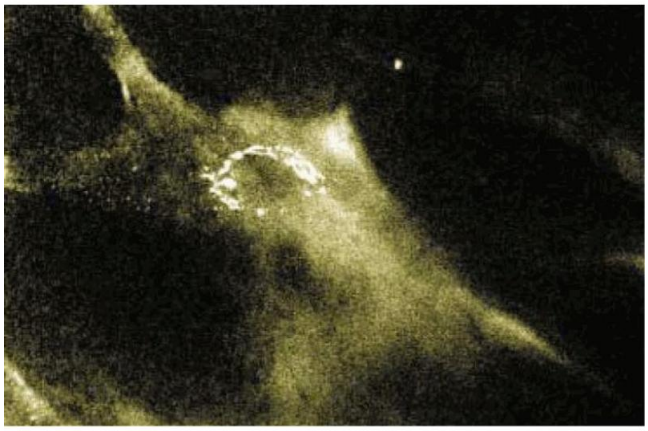
Western Blotting

Image 1.



Western Blotting

Image 2. Western blot analysis of IGFBP-3 on a human plasma lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-human IGFBP-3 antibody.



Immunofluorescence

Image 3. Immunofluorescence staining of human fibroblasts.

Please check the product details page for more images. Overall 4 images are available for ABIN968565.