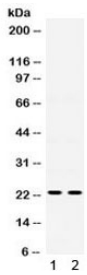
IGFBP5 Antibody (R32028)

Catalog No.	Formulation	Size
R32028	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P24593
Applications	Western blot: 0.1-0.5ug/ml ELISA: 0.1-0.5ug/ml (human protein tested); request BSA-free format for coating
Limitations	This IGFBP5 antibody is available for research use only.



Western blot testing of human 1) U20S and 2) HeLa lysate with IGFBP5 antibody. Expected molecular weight: 30 kDa (intact protein), 19-24 kDa (cleavage fragments), 22 kDa (major fragment).

Description

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 two 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 into inactive fragments.

Application Notes

Optimal dilution of the IGFBP5 antibody should be determined by the researcher.

Immunogen

Amino acids QGLRCLPRQDEEKPLHALLHGRGVCLNEKSYREQVKIER of human IGFBP5 were used as the immunogen for the IGFBP5 antibody.

Storage

After reconstitution, the IGFBP5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

References (1)

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