Datasheet for ABIN1046788

IGF2R Protein (AA 2328-2491, partial) (GST tag)

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Overview

Quantity:	100 µg
Target:	IGF2R
Protein Characteristics:	AA 2328-2491, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IGF2R protein is labelled with GST tag.
Application:	ELISA

Product Details

Sequence:	KKERRETVIS KLTTCCRRSS NVSYKYSKVN KEEETDENET EWLMEEIQLP PPRQGKEGQE NGHITTKSVK ALSSLHGDDQ DSEDEVLTIP EVKVHSGRGA GAESSHPVRN AQSNALQERE DDRVGLVRGE KARKGKSSSA QQKTVSSTKL VSFHDDSDED LLHI
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalien cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	90 %

Target Details

Target:	IGF2R
Alternative Name:	Cation-independent mannose-6-phosphate receptor protein (IGF2R Products)
Background:	Transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface

Target Details

	to lysosomes. Lysosomal enzymes bearing phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelyosomal compartment where the low pH mediates the dissociation of the complex. This receptor also binds IGF2. Acts as a positive regulator of T-cell coactivation, by binding DPP4.
Molecular Weight:	45.7 kD
UniProt:	P20645

Application Details

Comment:	The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modificated such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Concentration:	0.2-2 mg/mL
Buffer:	Tris-based buffer, 50 % glycerol
Handling Advice:	Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week
Storage:	-20 °C
Storage Comment:	Store at -20 °C for extended storage, conserve at -20 °C or -80 °C

Publications

Product cited in:	Killian, Jirtle: "Genomic structure of the human M6P/IGF2 receptor." in: **Mammalian genome :**

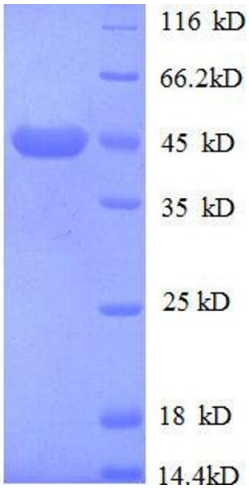
Publications

official journal of the International Mammalian Genome Society, Vol. 10, Issue 1, pp. 74-7, (1999) (PubMed).

Oshima, Nolan, Kyle, Grubb, Sly: "The human cation-independent mannose 6-phosphate receptor. Cloning and sequence of the full-length cDNA and expression of functional receptor in COS cells." in: **The Journal of biological chemistry**, Vol. 263, Issue 5, pp. 2553-62, (1988) (PubMed).

Morgan, Edman, Standring, Fried, Smith, Roth, Rutter: "Insulin-like growth factor II receptor as a multifunctional binding protein." in: **Nature**, Vol. 329, Issue 6137, pp. 301-7, (1987) (PubMed).

Images



SDS-PAGE

Image 1. Insulin-Like Growth Factor 2 Receptor (IGF2R) (AA 2328-2491), (partial) protein (GST tag)