

Product datasheet for **BM2226P**

IGF1 Receptor (IGF1R) (alpha chain) Mouse Monoclonal Antibody [Clone ID: 1H7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1H7
Applications:	FC, IHC, WB
Recommended Dilution:	Western Blot. Immunohistochemistry on Paraffin Sections: 1/10-1/40. Requires Protein digestion pre-treatment of paraffin sections (e.g. trypsin or pronase). Flow Cytometry: Use 10 µl of 1/10 diluted antibody to label 1 ⁰ cells in 100 µl. Recommended Positive Control: Pancreas, placenta.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Human placental IGF-I receptor.
Specificity:	This antibody recognizes CD221, a 155kD receptor tyrosine kinase, also known as Insulin-like growth factor I receptor (IGF-I Receptor). CD221 is composed of two extracellular alpha-subunits and two transmembrane betasubunits. Clone 1H7 recognizes an epitope in the alpha subunits of CD221, demonstrated by Western blotting. CD221 is expressed in a range of tissues, including kidney, liver, placenta, mammary gland, brain, ovary and skin. The ligands for CD221 include IGF-I and IGF-II, which bind to CD221 and activate tyrosine kinase activity, resulting in phosphorylation of several intracellular signalling proteins. Clone 1H7 is reported to partially block binding of IGF-I and IGF-II to CD221. We recommend the use of BM2226LE for this purpose.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction from tissue culture supernatant Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G



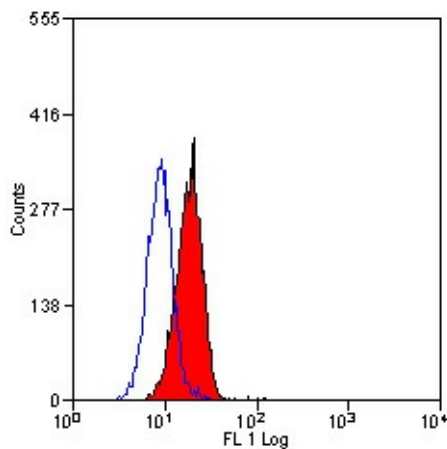
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Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	insulin like growth factor 1 receptor
Database Link:	Entrez Gene 3480 Human P08069

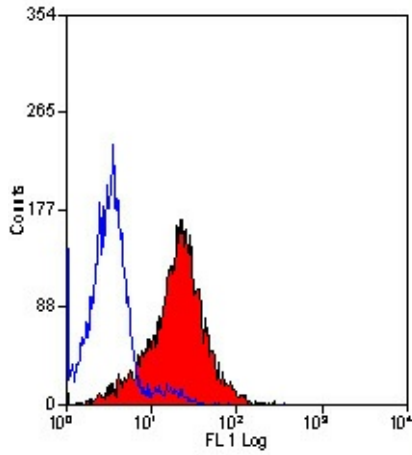
Background: There are two kinds of IGF receptors based on their relative affinities for IGF1 versus IGF2. The IGF1 receptor (also known as CD221) prefers IGF1 over IGF2 and weakly binds insulin. IGF1 receptor is a disulfide-linked heterotetrameric transmembrane protein consisting of two alpha (130 kD) and two beta (95 kD) subunits. Both the alpha and beta subunits are encoded within a single receptor precursor cDNA. The IGF1 receptor is therefore similar in structure to the insulin receptor. The proreceptor polypeptide is proteolytically cleaved and disulfide-linked to yield the mature heterotetrameric receptor. The IGF1 receptor is highly expressed in all cell types and tissues and is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival.

Synonyms: IGF-I receptor, IGF1 Receptor

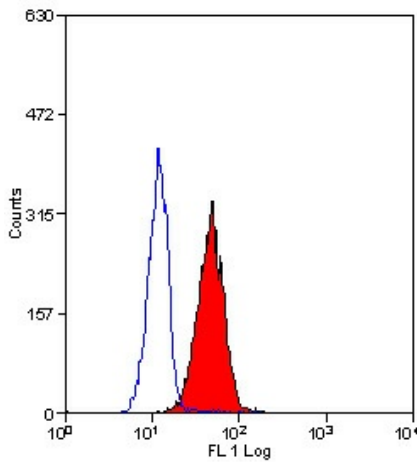
Product images:



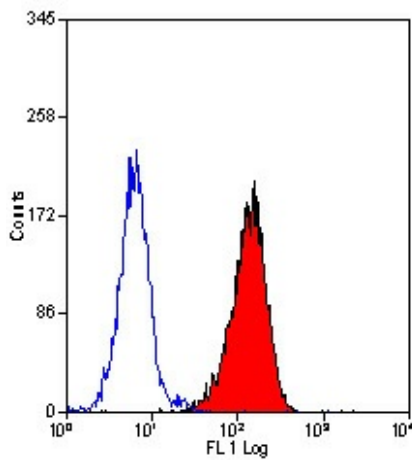
Staining of human peripheral blood granulocytes with mouse anti human CD221



Staining of human peripheral blood granulocytes with mouse anti human CD221: Alexa FluorR 488



Staining of human peripheral blood granulocytes with mouse anti human CD221: Low Endotoxin



Staining of human peripheral blood granulocytes with mouse anti human CD211:RPE