

Datasheet for ABIN181732

anti-IGF1R antibody (Chain alpha)



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Overview

Quantity:	0.2 mg
Target:	IGF1R
Binding Specificity:	Chain alpha
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IGF1R antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 myeloma cell line.
Clone:	1H7
Isotype:	IgG1
Specificity:	This antibody recognises CD221. 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.
Purification:	Affinity Chromatography on Protein G

Target Details

Target:	IGF1R
Alternative Name:	CD221 / IGF1R (IGF1R Products)
Background:	CD221 is 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 beta-subunits. CD221 is expressed in a range of tissues, including kidney, liver, placenta, mammary gland, brain, ovary and skin.Synonyms: IGF-I receptor, IGF1 Receptor, Insulin-like growth factor 1 receptor
Gene ID:	3480
NCBI Accession:	NP_000866
UniProt:	P08069
Pathways:	RTK Signaling , Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Autophagy

Application Details

Application Notes:	Western Blot. Flow Cytometry: Use 10 µL of 1/10 diluted antibody to label 10 ⁶ cells in 100 µL. Immunohistochemistry on Paraffin Sections (1/10-1/40): Requires protein digestionpre-treatment. Recommended Positive Control: Pancreas, placenta. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

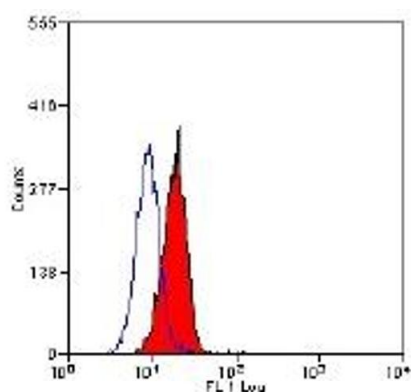
Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, pH 7.4 containing 0.09 % Sodium Azide as preservative.
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:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Publications

- Product cited in: Beuschlein, Jakoby, Mentz, Zambetti, Jung, Reincke, Süss, Hantel: "IGF1-R inhibition and liposomal doxorubicin: Progress in preclinical evaluation for the treatment of adrenocortical carcinoma." in: **Molecular and cellular endocrinology**, Vol. 428, pp. 82-8, (2016) ([PubMed](#)).
- Hantel, Lewrick, Reincke, Süss, Beuschlein: "Liposomal doxorubicin-based treatment in a preclinical model of adrenocortical carcinoma." in: **The Journal of endocrinology**, Vol. 213, Issue 2, pp. 155-61, (2012) ([PubMed](#)).
- Hantel, Lewrick, Schneider, Zwermann, Perren, Reincke, Süss, Beuschlein: "Anti insulin-like growth factor I receptor immunoliposomes: a single formulation combining two anticancer treatments with enhanced therapeutic efficiency." in: **The Journal of clinical endocrinology and metabolism**, Vol. 95, Issue 2, pp. 943-52, (2010) ([PubMed](#)).

Images



Staining of human peripheral blood granulocytes with mouse anti human CD221

Flow Cytometry

Image 1. Mouse anti CD221 (IGF-I Receptor alpha) 1H7