

Datasheet for ABIN111141

anti-IGF1R antibody (Chain alpha)



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Overview

Quantity:	0.5 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)), Functional Studies (Func)

Product Details

Clone:	1H7
Isotype:	IgG1
Specificity:	Clone 1H7 recognizes an epitope in the alpha subunits of CD221, demonstrated by Western blotting (Ref.1). Clone 1H7 is reported to partially block binding of IGF-I and IGF-II to CD221 (Ref.1)
Purification:	Affinity Chromatography on Protein G
Endotoxin Level:	Low Endotoxin

Target Details

Target:	IGF1R
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Target Details

Alternative Name:	CD221 / IGF1R (IGF1R Products)
Background:	CD221, a 155 kD tyrosine kinase, 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. 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. 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:	Functional Assays. Western blotting. Immunohistochemistry on Paraffin Sections: 1/10-1/40. This product does not require protein digestion pre-treatment of paraffin sections. Use pancreas or placenta as histology positive control tissue. Flow Cytometry Use 10 µL of 1/10 diluted antibody to label 10 ⁶ cells in 100 µL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

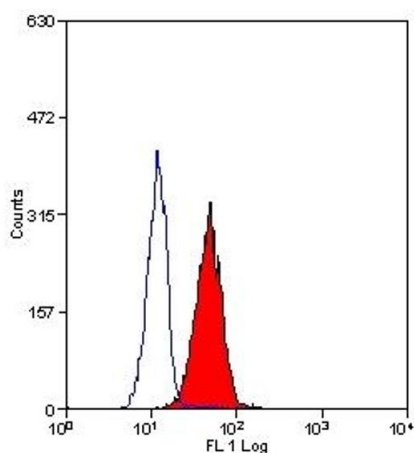
Handling

Concentration:	1.0 mg/mL
Buffer:	PBS without preservatives or stabilizers
Preservative:	Without preservative
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody prior to reconstitution at -20 °C. Following reconstitution the antibody can be stored at 2-8 °C for one month or at -20 °C for longer.

Publications

- Product cited in: 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



Flow Cytometry

Image 1. Staining of human peripheral blood granulocytes with mouse anti human CD221-low endotoxin (ABIN111141)