

Mouse anti-CD221 IGF RECEPTOR, clone 1H7 (Monoclonal)

Clone no. 1H7

MONOSAN

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Product name	Mouse anti-CD221 IGF RECEPTOR, clone 1H7 (Monoclonal)
Host	Mouse
Applications	IHC-P (1:10-1:40), FC (1:10), WB
Species reactivity	Human
Conjugate	-
Immunogen	Purified human placental CD221 IGF-1 receptor
Isotype	IgG
Clonality	Monoclonal
Clone number	1H7
Size	1 ml
Concentration	n/a
Format	Purified
Storage buffer	PBS with azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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**Additional info**

IGF-1 Receptor recognizes human 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 beta-subunits. Clone 1H7 recognizes an epitope in the alpha subunits of CD221, demonstrated by Western blotting (1). 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 signaling proteins. Clone 1H7 is reported to partially block binding of IGF-I and IGF-II to CD221 (1).

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant. Pretreatment: protein digestion (Trypsin or Pronase) is required for IHC staining on formalin-fixed, paraffin embedded tissue sections. Note: Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

**References**

1. Li, S.L. et al. (1993) Biochem. Biophys. Res. Commun. 196:92-98.
2. Beauvais, D.M. and Rapraeger, A.C. (2010) J Cell Sci. 2010 Nov 1;123: 3796-807
3. -
4. -
5. -

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