

Eff. Date: 4 March 2020

Version: 2.0

IFU: CD221 IGF-1 Receptor ILM2316

CD221 IGF-1 Receptor clone 1H7

Instructions for Use

Specification:

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 partically block binding of IGF-I and IGF-II to CD221 (1).

Availability:

 Catalog NO.
 Contents
 Volume

 ILM2316-C01
 CD221 IGF-1 receptor
 0,1 ml concentrate

 ILM2316-C05
 CD221 IGF-1 receptor
 0,5 ml concentrate

 ILM2316-C1
 CD221 IGF-1 receptor
 1,0 ml concentrate

Intended use: For Research Use Only

Reactivity: Human

Clone: 1H7

Species of origin: Mouse

Isotype: IgG

Control Tissue: Pancreas, placenta

Staining: Membrane

Immunogen: Purified human placental CD221 IGF-1 receptor

Presentation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Application and suggested dilutions:

Pretreatment: protein digestion (Trypsin or Pronase) is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution up to 1:10-1:40)
- Flow Cytometry (dilution up to 1:10)
- Western Blotting

The optimal dilution for a specific application should be determined by the investigator.

Note: Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

Storage & Stability: Store at 2-8 °C. Do not use after expiration date printed on the vial.

References:

- 1) Li, S.L. et al. (1993) Two new monoclonal antibodies against the alpha subunit of the human insulin-like growth factor-I receptor. Biochem. Biophys. Res. Commun. 196:92-98.
- 2) Beauvais, D.M. and Rapraeger, A.C. (2010) Syndecan-1 couples the insulin-like growth factor-1 receptor to insideout integrin activation J Cell Sci. 2010 Nov 1;123: 3796-807.

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