SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Antibody Discovery - Mouse IGF-I R / CD221 (31-936) Membrane Protein, Partial, - His tag

Cat. No.: **MP0249F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Mouse IGF-I R / CD221 (31-936). It has been tested in SDS-PAGE, ELISA. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Mouse

Target Protein
IGF-I R / CD221

Protein Length
ECD

Molecular Weight
This protein contains a furin convertase cleavage site, 738-RRRR-741, and will be partially processed into N (α chain) and C-terminal fragment (partial β chain) with calculated MW of 81.3 kDa and 24.3 kDa respectively. The protein migrates as 45-50 kDa (partial β chain), 96-115 kDa (α chain) and 120 kDa (α chain & partial β chain) due to glycosylation.

Sequence
AA Glu 31 - His 936 (Accession # Q60751-1).

Product Description

Activity
Yes

Application
SDS-PAGE, ELISA

Expression Systems
HEK293

Tag
His tag at the C-terminus

Protein Format
Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>90% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.
The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile coditions after reconstitution after storage at -80°C.

Target

Target Protein

IGF-I R / CD221

Full Name

insulin-like growth factor I receptor

Introduction

This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

Alternative Names

IGF-, hyft, CD221, IGF-1R, D930020L01, A330103N21Rik, insulin-like growth factor 1 receptor

Gene ID

16001

UniProt ID

Q60751

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