

For Research Use Only

OSMR Recombinant monoclonal antibody

Catalog Number: 84555-2-RR



Basic Information

Catalog Number:

84555-2-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1426

GenBank Accession Number:

BC010943

GeneID (NCBI):

9180

UNIPROT ID:

Q99650

Full Name:

oncostatin M receptor

Calculated MW:

110 kDa

Observed MW:

~180 kDa

Purification Method:

Protein A purification

CloneNo.:

241865C8

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:200-1:800

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Species Specificity:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, Raji cells, A375 cells, HEK-293 cells, HepG2 cells, SH-SY5Y cells, NIH/3T3 cells

IHC : mouse cerebellum tissue,

FC (Intra) : HeLa cells,

Background Information

Oncostatin M (OSM) is a member of interleukin-6 family cytokines that modulates proliferation and differentiation in numerous cells (PMID: 22982441). OSM signals via a receptor complex comprising gp130 and the OSMR (also called OSMR β) (PMID: 8999038). OSMR is a single-pass membrane protein that belongs to the type I cytokine receptor family. OSMR mRNA is expressed at relatively high levels in all neural cells and fibroblast, epithelial, and various tumor cell lines (PMID: 8999038). It has also been shown that OSMR associates with IL31RA to form the heterodimeric IL31 receptor (PMID: 15184896). OSMR has a calculated molecular weight of 110 kDa, with an apparent molecular weight of 150-180 kDa (PMID: 8999038; 17028186; 39266541; 34644107). A 70 kDa soluble form can be detected by western blot (PMID: 17028186).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

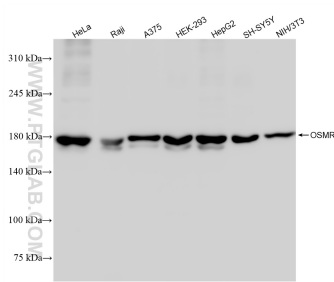
T: 4006900926

E: Proteintech-CN@ptglab.com

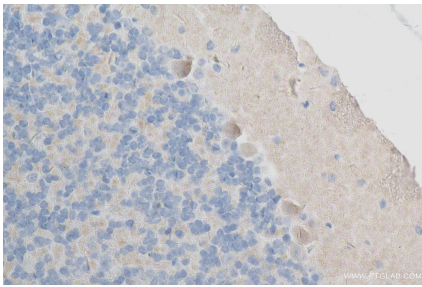
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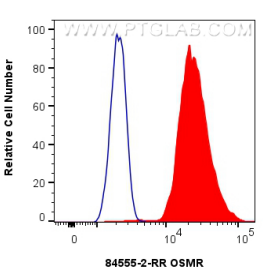
Selected Validation Data



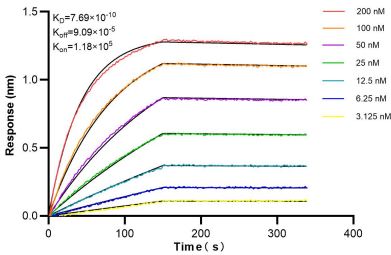
Various lysates were subjected to SDS PAGE followed by western blot with 84555-2-RR (OSMR antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 84555-2-RR (OSMR antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug OSMR Recombinant antibody (84555-2-RR, Clone:241865C8) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Biolayer interferometry (BLI) kinetic assays of 84555-2-RR against Human OSMR were performed. The affinity constant is 0.769 nM.