Rabbit Monoclonal Antibody to Human Oncostatin M Receptor

Cat. No. CAB11590RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Oncostatin M Receptor
Species	Human
Source	Rabbit
Antigen Description	Oncostatin-M-specific receptor subunit beta, also known as interleukin-31 receptor subunit beta, and OSMR, is a single-pass type I membrane protein which belongs to the type I cytokine receptor family and Type 2 subfamily. OSMR contains four fibronectin type-III domains and is expressed at relatively high levels in all neural cells as well as fibroblast, epithelial and a variety of tumor cell lines. Four forms of OSMR have been identified: leukemia inhibitory factor receptor (LIFR), OSMR beta, short-form OSMR (OSMRs) and soluble OSMR (sOSMR). OSMR associates with IL31RA to form the IL31 receptor. It binds IL31 to activate STAT3 and possibly STAT1 and STAT5. OSMR is part of a heterodimeric receptor complex that mediates signal transduction of the pleiotropic cytokine OSM via a signaling pathway involving Janus kinases (Jaks) and transcription factors of the signal transducers and activators of transcription (STAT) family. Defects in OSMR are the cause of amyloidosis type 9 (AMYL9) which is a hereditary primary amyloidosis characterized by localized cutaneous amyloid deposition.
Specificity	Human OSMR / IL-31RB. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Immunogen	Recombinant Human OSMR / IL-31RB Protein
Isotype	Rabbit IgG
Clone	A008
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 μg/mL with the appropriate secondary reagents to detect Human OSMR in WB.Using a DAB detection system, the detection limit for Human OSMR is approximately 1 ng/lane under non-reducing conditions and 20 ng/lane under reducing conditions.Direct ELISA: This antibody can be used at 0.1-0.2 μg/mL with the appropriate secondary reagents to detect Human OSMR. The detection limit for Human OSMR is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human OSMR / IL-31RB
Format	0.2 μm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	OSMR oncostatin M receptor [Homo sapiens]
Official Symbol	OSMR

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Synonyms	OSMR; oncostatin M receptor; oncostatin-M-specific receptor subunit beta; OSMRB; IL-31RB; IL-31R-beta; IL-31R subunit beta; IL-31 receptor subunit beta; interleukin-31 receptor subunit beta; oncostatin-M specific receptor beta subunit; PLCA1; MGC75127; MGC150626; MGC150627;
Gene ID	9180
mRNA Refseq	NM_001168355
Protein Refseq	NP_001161827
MIM	601743
UniProt ID	Q99650
Chromosome Location	5p13.2
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
Function	growth factor binding; contributes_to oncostatin-M receptor activity; receptor activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA