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OSMR antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI12677

Product Information

Application	WB
Primary Accession	Q99650
Other Accession	NM_003999, NP_003990
Reactivity	Human, Rabbit, Dog, Guinea Pig, Horse
Predicted	Human, Rabbit, Dog, Guinea Pig, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110509

Additional Information

Gene ID	9180
Alias Symbol	MGC150626, MGC150627, MGC75127, OSMRB, PLCA1
Other Names	Oncostatin-M-specific receptor subunit beta, Interleukin-31 receptor subunit beta, IL-31 receptor subunit beta, IL-31R subunit beta, IL-31R-beta, IL-31RB, OSMR, OSMRB
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-OSMR antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	OSMR antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	OSMR (HGNC:8507)
Synonyms	OSMRB
Function	Functions as a shared membrane-bound signal-transducing subunit in two distinct receptor complexes, the type II OSM receptor (heterodimer composed of OSMR and IL6ST) and the IL31 receptor complex (heterodimer composed of OSMR and IL31RA) which respectively bind OSM and IL31 (PubMed:15184896, PubMed:15627637, PubMed:8999038). Functionally, OSM signaling via OSMR/IL6ST regulates many processes including cell proliferation, cell differentiation, cytokine production, whereas the IL31

signaling via OSMR/IL31RA is particularly important in skin immunity (PubMed:15184896, PubMed:8999038). Mechanistically, in both the OSM-IL6ST/gp130-OSMR and IL31-IL31RA-OSMR complexes, receptor dimerization activates JAK1 and JAK2 (and to a lesser extent TYK2) associated with the intracellular domains of IL6ST/gp130 and OSMR (or IL31RA and OSMR) (PubMed:15627637, PubMed:8999038, PubMed:9188471). These kinases phosphorylate tyrosine residues on IL6ST/gp130 and OSMR (or IL31RA and OSMR), creating docking sites for STAT1, STAT3, and STAT5B, which are then phosphorylated and activated (PubMed:15627637, PubMed:9188471). In addition, the IL31 receptor complex activates the MAPK pathway (MAPK3/ERK1-MAPK1/ERK2) via recruitment of the adapter protein SHC1 (PubMed:15627637).

Cellular Location

Membrane; Single-pass type I membrane protein

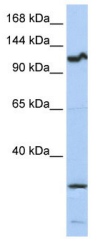
Tissue Location

Expressed in keratinocytes (at protein level) (PubMed:21261663). Expressed at relatively high levels in all neural cells as well as fibroblast and epithelial cells (PubMed:8999038)

References

Arita,K.,(2008)Am.J.Hum.Genet.82(1),73-80ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

Images



WB Suggested Anti-OSMR Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: 721_B cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.