abcam

ab322133

Alexa Fluor® 647 Anti-OSMR antibody [EPR28222-64]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Alexa Fluor® 647
Excitation/Emission	Ex: 650nm, Em: 665nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR28222-64
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	1/5000
Notes	-

ICC/IF

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information Osmr

Function	Associates with IL31RA to form the IL31 receptor (PubMed:9920829). Binds IL31 to activate STAT3 and possibly STAT1 and STAT5 (By similarity). Capable of transducing OSM-specific signaling events (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle, Store in the dark

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

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Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The Oncostatin M receptor commonly known as OSMR is an important membrane-bound receptor involved in numerous cellular processes. It is part of the type I cytokine receptor family and often forms heterodimers with gp130 to mediate its functions. OSMR has a mass of approximately 115 kDa and predominantly expresses in tissues such as skin lung liver and the nervous system. Alternative names for OSMR include Oncostatin-M-specific receptor beta subunit and IL-31 receptor beta.
Biological function summary	OSMR plays a significant role in regulating inflammatory responses and cell growth. It is part of a receptor complex that upon activation triggers intracellular signaling cascades driven by cytokines like Oncostatin M and IL-31. OSMR involvement influences processes including acute phase responses hematopoiesis and nerve cell differentiation. Its action helps mediate the communication between cells to respond to external inflammatory signals effectively.
Pathways	OSMR is actively involved in the JAK/STAT signaling pathway and the MAPK pathway. In JAK/STAT OSMR collaborates with related proteins like gp130 and participates in promoting transcriptional activity of specific genes in response to cytokine signaling. OSMR's engagement in the MAPK pathway influences cellular responses such as proliferation differentiation and apoptosis linking it with proteins such as MAP Kinases that further proceed this signaling cascade.
Associated diseases and disorders	OSMR shows a connection with atopic dermatitis and various cancers. Aberrant OSMR signaling can lead to excessive inflammatory responses contributing to skin conditions like atopic dermatitis often involving IL-31 in the pathway. In cancer

elevated OSMR expression correlates with tumorigenesis and progression establishing its interaction with oncogenic proteins in the STAT3 pathway which may promote malignant cell behavior. Through these disease interactions OSMR represents a potential therapeutic target worth exploring.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

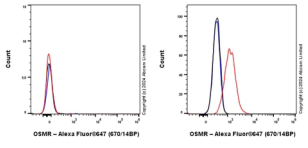
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

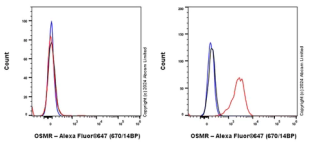
2 product images



Flow Cytometry - Alexa Fluor® 647 Anti-OSMR antibody [EPR28222-64] (ab322133)

Flow cytometric analysis of M1 (mouse myeloid leukemia myeloblast, Left) / 3T3-L1 (mouse embryonic fibroblast, Right) cells labelling OSMR with ab322133 at 1/5000 dilution (0.01ug) (Red) compared with a Rabbit IgG monoclonal [EPR25A] - Isotype Control (Alexa Fluor® 647) (ab199093) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Negative control: M1.
Gated on viable cells.



Flow Cytometry - Alexa Fluor® 647 Anti-OSMR antibody [EPR28222-64] (ab322133)

Flow cytometric analysis of EL4 (mouse lymphoma T lymphocyte, Left) / NIH/3T3 (mouse embryonic fibroblast, Right) cells labelling OSMR with ab322133 at 1/5000 dilution (0.01ug) (Red) compared with a Rabbit IgG monoclonal [EPR25A] - Isotype Control (Alexa Fluor® 647) (ab199093) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Negative control: EL4.
Gated on viable cells.

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