Mouse OSM Rβ
Alexa Fluor® 405-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 118125

Catalog Number: FAB662V

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse OSM Rβ in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) CLC, rhCNTF, rhOSM, recombinant mouse (rm) CT-1, rmIL-6, rmIL-11, or rmLIF is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 118125
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse OSM Rβ Glu24-Leu738 Accession # O70458
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10^6 cells	D3 mouse embryonic stem cell line

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Oncostatin M (OSM) is a member of the IL-6 family of cytokines that share the gp130 as a common signal transducing receptor subunit. Human OSM signals through two types of human OSM receptor complexes: the type I complex comprising the leukemia inhibitory factor receptor beta (LIF Rβ) and gp130, the type II complex made up of OSM receptor beta (OSM Rβ) and gp130. In contrast, mouse OSM signals only through the mouse OSM Rβ and gp130 complex. Mouse OSM Rβ cDNA encodes a 971 amino acid (aa) type I transmembrane protein which contains a 23 aa signal peptide, an extracellular domain of 714 aa, a transmembrane domain of 20 aa and a 214 aa cytoplasmic domain. Mouse OSM Rβ alone binds mOSM with low-affinity but forms a high-affinity binding complex in the presence of gp130. Mouse OSM Rβ is 55% identical at the amino acid sequence level to human OSM Rβ.

References:

1. Lindberg, R.A. *et al*. (1998) Mol. Cell. Biol. **18**:3357.
2. Tanaka, M. *et al*. (1999) Blood **93**:804.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449