

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse OSM R β in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) CLC, rhCNTF, rhOSM, recombinant mouse (rm) CT-1, rMLL-6, rMLL-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 R β Glu24-Leu738 Accession # O70458
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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 μ g/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. <ul style="list-style-type: none"> 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 R β) and gp130, the type II complex made up of OSM receptor beta (OSM R β) and gp130. In contrast, mouse OSM signals only through the mouse OSM R β and gp130 complex. Mouse OSM R β 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 R β alone binds mOSM with low-affinity but forms a high-affinity binding complex in the presence of gp130. Mouse OSM R β is 55% identical at the amino acid sequence level to human OSM R β .

References:

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

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