Mouse Oncostatin M/OSM Alexa Fluor® 405-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 824157

Catalog Number: FAB4951V

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Oncostatin M/OSM in direct ELISAs.
Source	Monoclonal Rat IgG_{2B} Clone # 824157
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse Oncostatin M/OSM Ala24-Arg206 Accession # P53347
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.*

Neutralization	Optimal dilution of this antibody should be experimentally determined.

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. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months, 2 to 8 °C under sterile conditions after opening.

BACKGROUND

Oncostatin M (OSM) is a member of a cytokine subfamily that includes IL-6, IL-11, LIF, CNTF, and Cardiotrophin-1. These cytokines have overlapping biological functions and shared receptor components. Mouse OSM was cloned and identified as an immediate early gene induced in various myeloid and lymphoid cell lines by a subset of cytokines including IL-2, IL-3, GM-CSF, and Erythropoietin. The mouse OSM cDNA encodes a 263 amino acid residue precursor protein that shows 48% identity with human OSM. Similar to human OSM, the C-terminal region of mouse OSM contains a highly charged region. Deletion of this C-terminal region appears to be essential for the formation of biologically active mouse OSM. The biological activity of human OSM has been shown to be mediated either by the LIF/OSM receptor complex composed of gp130 and LIF Rα or by a human OSM specific receptor composed of gp130 and OSM Rα. It remains to be determined if the biological activities of mouse OSM can also be mediated by both receptor complexes in mouse cells.

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