

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse OSM R β .
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
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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
Immunohistochemistry	8-25 μ g/mL	Immersion fixed frozen sections of mouse embryo (E13.5-15.5)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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) residue type I transmembrane protein which contains a 23 aa residue 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.