**DESCRIPTION**

**Species Reactivity** Mouse

**Specificity** Detects mouse OSM Rβ in direct ELISAs and Western blots.

**Source** Polyclonal Goat IgG

**Purification** Antigen Affinity-purified

**Immunogen** Mouse myeloma cell line NS0-derived recombinant mouse OSM Rβ Glu24-Leu738

**Accession #** O70458

**Formulation** Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

**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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Recommended Concentration</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>0.1 µg/mL</td>
<td>Recombinant Mouse OSM Rβ Fc Chimera (Catalog # 662-OR)</td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td>5-15 µg/mL</td>
<td>Immersion fixed frozen sections of mouse embryo (E13.5-15.5)</td>
</tr>
</tbody>
</table>

**PREPARATION AND STORAGE**

**Reconstitution** Reconstitute at 0.2 mg/mL in sterile PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

**Stability & Storage**

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 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 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) 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 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:**