



Oncostatin M (OSM, Oncostatin M Precursor, MGC20461)

Catalog number

O6500-07

Supplier

United States Biological

Oncostatin M is an important growth regulating cytokine that affects variably a number of tumor and normal cells. Oncostatin M exerts inhibitory effects on the growth of A375 melanoma and other cancer cells, but augments the growth of normal fibroblasts, AIDS-related Kaposi sarcoma cells, and other certain cells.

Applications

Suitable for use in ELISA, Western Blot and Neutralization. Other applications not tested.

Recommended Dilutions

ELISA: 0.5-1ug/ml

Western Blot: 1-2ug/ml. Band at ~22kD

Neutralization: ND50=0.1-0.5ug/ml

Optimal dilutions to be determined by the researcher.

Positive Control

Human TF-1 cell line

Storage and Stability

Lyophilized powder may be stored at -20°C. Stable for 12 months after receipt at -20°C. Reconstitute with sterile PBS. Aliquot to avoid repeated freezing and thawing. Store at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Immunogen

Recombinant full length human Oncostatin M protein expressed in E. coli. Cellular Localization: Secreted.

Formulation

Supplied as a lyophilized powder, 5% trehalose. Reconstitute with 200ul sterile PBS.

Purity

Purified by Protein A affinity chromatography. Endotoxin: ≤5ng/vial.

Specificity

Recognizes human Oncostatin M. Does not crossreact with recombinant mouse OSM or recombinant human IL6. Shows <10% crossreactivity with recombinant human LIF.

Product Type

Mab

**Source**

human

Isotype

IgG2a

Grade

Affinity Purified

Applications

E N WB

Crossreactivity

Hu

Storage

-20°C

Reference

1. Grove RI et al. Oncostatin M up-regulates low density lipoprotein receptors in HepG2 cells by a novel mechanism. *J Biol Chem* 266:18194-9 (1991). 2. Brown TJ et al. Regulation of IL-6 expression by oncostatin M. *J Immunol* 147:2175-80 (1991). 3. Hamilton JA et al. Oncostatin M stimulates urokinase-type plasminogen activator activity in human synovial fibroblasts. *Biochem Biophys Res Commun* 180:652-9 (1991). 4. Brown TJ et al. Purification and characterization of cytostatic lymphokines produced by activated human T lymphocytes. Synergistic antiproliferative activity of transforming growth factor beta 1, interferon-gamma, and oncostatin M for human melanoma cells. *J Immunol* 139:2977-83 (1987).