



# Recombinant Protein Technical Manual

## Recombinant Mouse Lithostathine-2/REG2 Protein (His Tag) RPES2128

### Product Data:

**Product SKU:** RPES2128

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q08731

### Protein Information:

**Molecular Mass:** 17.7 kDa

**AP Molecular Mass:** 18 kDa

**Tag:** N-6His

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Regenerating Islet-derived 2;Islet of Langerhans regenerating protein 2;Pancreatic stone protein 2;Pancreatic thread protein 2;PSP;PTP

## Immunogen Information:

**Sequence:** Gln23-Ala173

## Background:

Regenerating protein 2 (Reg2) also known as Lithostathine 2, pancreatic thread protein (PTP2) and pancreatic stone protein 2 (PSP2), is a member of the Reg family of proteins. These small, secreted proteins have been implicated in a range of physiological processes including acting as acute phase reactants, lectins, survival/growth factors for insulin-producing pancreatic beta-cells, neural cells, and epithelial cells of the digestive system. Studies also indicate a role for Reg family members in tumor formation and indicate their potential for use as biomarkers of carcinogenesis. Mouse Reg2 is expressed in regenerating islets and normal exocrine pancreas. Reg2 also stimulates the growth of pancreatic beta cells. Mouse Reg2 belongs to the type II subclass of the Reg family and is the only subclass II Reg protein described.