



Recombinant Protein Technical Manual
Recombinant Mouse PIGR Protein (His Tag)(Active)
RPES3741

Product Data:

Product SKU: RPES3741

Size: 50µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: NP_035212.2

Protein Information:

Molecular Mass: 70.8 kDa

AP Molecular Mass: 9000 kDa

Tag: C-His

Bio-activity: Measured by its binding ability in a functional ELISA. Immobilized recombinant mouse PIGR at 5 µg/ml (100 µl/well) can bind mouse IgM with a linear range of 0.1560 µg/ml.

Purity: > 97 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein 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 sterile PBS, pH 7.4

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

Application: Functional ELISA

Synonyms: Pigr

Immunogen Information:

Sequence: Met 1-Lys 645

Background:

Polymeric immunoglobulin receptor, also known as PIGR, is a member of the immunoglobulin superfamily and a Fc receptor. The ectodomain of this receptor consists of five units with homology to the variable units of immunoglobulins and a transmembrane region, which also has some homology to certain immunoglobulin variable regions. PIGR is expressed on several glandular epithelia including those of liver and breast. The deduced amino-acid sequence has a length of 764 residues and shows an overall similarity of 56% and 64% with the rabbit and rat counterpart. PIGR mediates transcellular transport of polymeric immunoglobulin molecules, and thus facilitates the secretion of IgA and IgM. During this process, a cleavage occurs that separates the extracellular (known as the secretory component) from the transmembrane segment of PIGR.