



Recombinant Protein Technical Manual

Recombinant Human Uteroglobin/SCGB1A1 Protein (His Tag) RPES3832

Product Data:

Product SKU: RPES3832

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P11684

Protein Information:

Molecular Mass: 8.7 kDa

AP Molecular Mass: 9 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

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

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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: Uteroglobin; Clara cell phospholipid-binding protein; CCPBP; Clara cells 10 kDa secretory protein; CC10; Secretoglobin family 1A member 1; Urinary protein 1; UP; UP1; Urine protein 1; SCGB1A1; CCSP; UGB

Immunogen Information:

Sequence: Glu22-Asn91

Background:

Uteroglobulin is a small, non-glycosylated secreted protein of the secretoglobulin superfamily. It is produced by the non-ciliated, non-mucous secretory cells that predominate in lung bronchioles (Clara cells), and other non-ciliated epithelia that communicate with the external environment. Expression is induced by steroid hormones such as estrogen, and enhanced by the non-steroid hormone prolactin. Human Uteroglobulin cDNA encodes a 21 amino acid (aa) signal sequence and a 70 aa mature protein. The mature protein forms a disulfide-linked head-to-tail homodimer of 16 kDa. This homodimer is thought to form a binding pocket that binds hydrophobic ligands such as phospholipids, progesterone and retinols. Binding of fibronectin to Uteroglobulin in the kidney is thought to protect against nephropathy, while binding of the lipocalin receptor has been reported to suppress cancer cell motility and invasion.