

RPES8508

Product Information

Product SKU:	RPES8508	Expression Host:	Mammalian	Size:	20µg
Tag:	C-Fc	Reactivity:	Mouse	Accession:	P09803

Additional Information

Calculated MW:	85.7 kDa	Observed MW:	100 kDa
Sequence:	Asp157-Val709		

Protein Information

Background: Cadherins are calcium-dependent cell adhesion proteins which preferentially interact with themselves in a homophilic manner in connecting cells, and thus may contribute to the sorting of heterogeneous cell type. E-cadherin (E-Cad), also known as CDH1 and CD324, is a calcium-dependent cell adhesion molecule the intact function of which is crucial for the establishment and maintenance of epithelial tissue polarity and structural integrity. Mutations in CDH1 occur in diffuse type gastric cancer, lobular breast cancer, and endometrial cancer. In human cancers, partial or complete loss of E-cadherin expression correlates with malignancy. During apoptosis or with calcium influx, E-Cad is cleaved by the metalloproteinase to produce fragments of about 38 KD (E-CAD/CTF1), 33 KD (E-CAD/CTF2) and 29 KD (E-CAD/CTF3), respectively. E-Cad has been identified as a potent invasive suppressor, as downregulation of E-cadherin expression is involved in dysfunction of the cell-cell adhesion system, and often correlates with strong invasive potential and poor prognosis of human carcinomas.

Synonyms: CDH, CAM 120/, AA960649, ARC-1, CAM 120/80, CD324, CDHE, Ecad, E-cad, Epithelial Cadherin, LCAM, L-CAM, Um, UVO, Uvomorulin, Cdh1, E-Cadherin, CDH1

Endotoxin: < 1.0 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

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Bio-Activity:

Not validated for activity

Storage:

Generally, 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.