Recombinant Mouse E-Cadherin Protein (His Tag)

RPES8488

Product Information

Product SKU:	RPES8488	**Expression Host**:	Mammalian	**Size**:	20µg
Tag:	C-His	**Reactivity**:	Mouse	**Accession**:	P09803

Additional Information

Calculated MW:	60.7 kDa	**Observed MW:**	80 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 kDa (E-CAD/CTF1) , 33 kDa (E-CAD/CTF2) and 29 kDa (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.

Contact Details | Dublin, Ireland
Email: techsupport@assaygenie.com | **Web:** www.assaygenie.com

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.

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