

RPES8304

Product Information

Product SKU:	RPES8304	Expression Host:	Mammalian	Size:	20µg
Tag:	C-Fc	Reactivity:	Human	Accession:	Q14563

Additional Information

Calculated MW:	82.2 kDa	Observed MW:	80-90 kDa
Sequence:	Lys26-Phe546		

Protein Information

Background:	This gene is a member of the semaphorin family and encodes a protein with an Ig-like C2-type (immunoglobulin-like) domain, a PSI domain and a Sema domain. This secreted protein can function as either a chemorepulsive agent, inhibiting axonal outgrowth, or as a chemoattractive agent, stimulating the growth of apical dendrites. In both cases, the protein is vital for normal neuronal pattern development. Increased expression of this protein is associated with an schizophrenia and is seen in a variety of human tumor cell lines. Also, aberrant release of this protein is associated with an the progression of Alzheimer's disease.
Synonyms:	SEMA3A, COLL1, HH16, Hsema-I, Hsema-III, SEMA1, SEMAD, SEMAIII, SEMAL, SemD, coll-1
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.
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.