Recombinant Human LIGHT/TNFSF14 Protein (Fc Tag)

RPES8364

Product Information

Product SKU:	RPES8364	**Expression Host**:	Mammalian	**Size**:	20µg
Tag:	C-Fc	**Reactivity**:	Human	**Accession**:	O43557

Additional Information

Calculated MW:	42.2 kDa	**Observed MW:**	45 kDa
Sequence:	Ile84-Val240		

Protein Information

Background: LIGHT , also known as TNFSF14 or CD258 , is a newly identified member of the TNF superfamily (TNFSF14) that is expressed by activated T lymphocytes , monocytes , granulocytes , spleen cells , and immature dendritic cells. TNFSF14 / LIGHT / CD258 is a type II transmembrane protein that is known to bind 2 membrane-bound TNFSF signaling receptors: HVEM , which is predominantly expressed by T cells , and lymphotoxin β receptor (LTβR) , which is expressed by stromal cells and nonlymphoid hematopoietic cells. TNFSF14 / LIGHT / CD258 also binds to a soluble non-signaling receptor , decoy receptor 3 (DcR3) , which can modulate the function of LIGHT in vivo. TNFSF14 / LIGHT / CD258 can also costimulate T cell responses via HVEM , which is constitutively expressed in most lymphocyte subpopulations , including CD4+ and CD8+ T cells. In addition , TNFSF14 / LIGHT / CD258 has been shown to suppress tumor formation in vivo and to induce tumor cell apoptosis via the up-regulation of intercellular adhesion molecule 1 and an increased lymphocyte adhesion to cancer cells. Thus , TNFSF14 / LIGHT / CD258 is being actively investigated as a possible basis for cancer treatment.

Synonyms: UNQ, PRO, Tumor necrosis factor ligand superfamily member, TNFSF, TNFSF14, CD258, HVEML, LIGHT, LTg, Herpes virus entry mediator ligand, HVEM-L, TR2, Tumor necrosis factor ligand superfamily member 14, UNQ391, PRO726, HVEM, TNFSF14, HVEA, TR2, TNFRSF14, ATAR

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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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

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