

Product datasheet for **TP728365**

Recombinant LIGHT, Mouse

Product data:

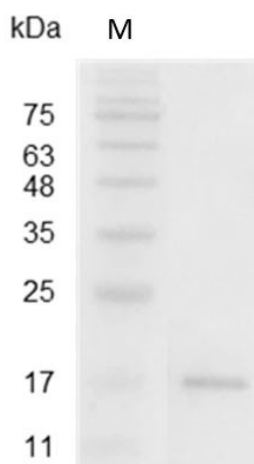
Product Type:	Recombinant Proteins
Description:	Recombinant LIGHT, Mouse
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MRLHQRLGDIVAHLPDGGKGSWEKLIQDQRSHQANPAAHLTGANASLIGIGGPLLWETRLGLAFLRGLTYHDGALVTMEPGYYVYSKVQLSGVGCQPQLANGLPITHGLYKRTSRYPKELELLVSRSPCGRANSSRVWWDSSFLGGVVHLEAGEEVRVPGNRLVRPRDGTYSYFGAFMV with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 20.92 kDa. The protein migrates about 17 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4.
Bioactivity:	Measure by its ability to induce cytotoxicity in HT-29 cells. The ED ₅₀ for this effect is <2 µg/mL.
Endotoxin:	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	Q9QYH9
Synonyms:	TNFSF14, HVEM-L, CD258, Ly113, LTg



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Summary:

LIGHT, also known as TNFSF14 is a member of the TNF superfamily that produced by multiple immune cells such as activated T cells and immature dendritic cells (DCs). Mouse LIGHT shares 79% sequence homology with human LIGHT. LIGHT is a 29 kDa type II transmembrane protein, which serves as a ligand for both lymphotoxin β receptor (LT β R) and TNFSF signaling receptors (TNFRSF14/HVEM). Besides, LIGHT can amplify NF- κ B signaling pathway in T cells when presencing anti-CD3 antibody treatment. Additionally, LIGHT is able to stimulate T cell proliferation and IFN expression via interacting with TNFRSF13 /HVEM.

Product images:

SDS- PAGE analysis of recombinant mouse LIGHT