

Recombinant Human TNFSF11 Protein, C-Myc/DDK-tagged

Product Information

Cat	IMP-7834
Official Symbol	Tnfsf11
Product Overview	Purified recombinant protein of Homo sapiens tumor necrosis factor (ligand) superfamily, member 11 (TNFSF11), transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.
Description	<p>This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dendritic cell survival factor and is involved in the regulation of T cell-dependent immune response. T cell activation was reported to induce expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been found.</p>
Expression System	HEK293T
Species	Human
Tag	C-Myc/DDK
Form	25mM Tris.HCl, pH 7.3, 100mM glycine, 10% glycerol
Molecular Mass	35.3 kDa
AA Sequence	<p>MRRASRDYTKYLRGSEEMGGGPGAPHEGPLHAPPPPAPHQPPAASRS MFVALLGLGLGQVVCSVALFFYFRAQMDPNRISEDGTHCIYRILRLHENA DFQDTTLESQDTKLIPDSCRRIKQAFQGAVQKELQHIVGSQHIRAEKAMV DGSWLDLAKRSKLEAQPFAHLTINATDIPSGSHKVSLSSWYHDRGWAKIS NMTFSNGKLIVNQDGFYYLYANICFRHHETSGDLATEYLQLMVVYVTKTSIK IPSSHTLMKGGSTKYWSGNSEFHYSINVGFFKLRSGEEISIEVSNPSLL DPDQDATYFGAFKVRDIDSGPTRTRRLEQKLISEEDLAANDILDYKDDDD KV</p>
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.

Storage

Store at -80 centigrade. Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Concentration

> 50 µg/mL as determined by microplate BCA method.