

Active Recombinant Human TNFSF13

Cat. No. TNFSF13-348H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF13 (Lys110-Leu250) was expressed in Mouse NS0 Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	110-250 a.a.
Description	APRIL is synthesized as a 32 kDa type II transmembrane protein which is cleaved by furin in the Golgi to release a 17 kDa soluble molecule. Human APRIL shares 85% aa sequence identity with mouse and rat APRIL. Among TNF superfamily ligands, BAFF shows the greatest sequence homology with APRIL, and the two proteins exhibit overlapping biological activities. Both APRIL and BAFF bind and signal through the TNF superfamily receptors TACI and BCMA, and BAFF additionally functions through BAFF R. APRIL can form bioactive heterotrimers with BAFF, and these circulate in the serum of patients with rheumatic immune disorders. A bioactive protein known as TWEPRIL consists of the intracellular domain, transmembrane segment, and stalk region of TWEAK fused to the TNF homology domain of APRIL. TWEPRIL is expressed in monocytes and activated T cells, and in contrast to APRIL, it is presented on the cell surface.
Molecular Mass	The recombinant human TNFSF13 predicts a molecular mass of 18.6 kDa. It migrates as 23-25 kDa band in SDS-PAGE under reducing conditions.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Predict-N terminal	MHHHHHHHHHHH
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS and NaCl with BSA as a carrier protein.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Activity	Measured in a cell proliferation assay using anti-IgM stimulated mouse B cells. The ED50 for this effect is typically 25-150 ng/mL in the presence of goat anti-mouse IgM.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Reconstitution	Reconstitute at 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Storage	12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
OfficialSymbol	TNFSF13

GENE INFORMATION

Gene Name	TNFSF13 tumor necrosis factor (ligand) superfamily, member 13 [Homo sapiens]
Synonyms	tumor necrosis factor (ligand) superfamily, member 13; TNF-related death ligand 1; APRIL; FLJ57090; CD256; OTTHUMP00000174781; A proliferation-inducing ligand; OTTHUMP00000174782; TALL-2; OTTHUMP00000174783; TALL2; tumor necrosis factor ligand superfamily member 13; TRDL-1; tumor necrosis factor-like protein ZTNF2; ZTNF2; tumor necrosis factor-related death ligand-1; TNF- and APOL-related leukocyte expressed ligand 2; CD256 antigen; UNQ383/PRO715;

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OTTHUMP00000135284; OTTHUMP00000174779; OTTHUMP00000174780	
Gene ID	8741
mRNA Refseq	NM_001198622
Protein Refseq	NP_001185551
MIM	604472
UniProt ID	Q2QBA2
Chromosome Location	17p13.1
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Intestinal immune network for IgA production, organism-specific biosystem; Intestinal immune network for IgA production, conserved biosystem; Metabolism of RNA, organism-specific biosystem; Metabolism of mRNA, organism-specific biosystem
Function	cytokine activity; protein binding; receptor binding; tumor necrosis factor receptor binding