

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606

techsupport@origene.com

OriGene Technologies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

AR09189PU-N Recombinant human 4-1 BBL /CD137 / TNFRSF9 (aa 71-254), His-

tagged

Alternate names: 4-1BB ligand, CD137L, Tumor necrosis factor ligand superfamily member 9

Quantity: 0.1 mg

Concentration: 1 mg/ml (determined by Bradford assay)

Background: 4-1BB ligand is a type 2 transmembrane glycoprotein belonging to the TNF

superfamily. 4-1BBL is expressed by activated B cells, macrophages, dendritic cells, activated T cells, neurons and astrocytes. The interaction of 4-1BB with 4-1BBL strongly regulates immunity and has been proposed to preferentially control T cell responses based on studies in various murine models of cancer, infectious disease

and autoimmune disease.

Uniprot ID: P41273

NCBI: NP 003802

GeneID: 8744

Species: Human

Source: E. coli

Format: State: Liquid purified IgG

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 100 mM NaCl, 20% glycerol

Description: Recombinant human 4-1BB ligand, fused to His-tag at N-terminus, was expressed in

E.coli and purified by using conventional chromatography.

AA Sequence:

MRGSHHHHH GMASMTGGOO MGRDLYDDDD KDRWGSH</u>MRE GPELSPDDPA GLLDLRQGMF AQLVAQNVLL IDGPLSWYSD PGLAGVSLTG GLSYKEDTKE LVVAKAGVYY VFFQLELRRV VAGEGSGSVS LALHLQPLRS AAGAAALALT VDLPPASSEA RNSAFGFQGR LLHLSAGQRL

GVHLHTEARA RHAWQLTQGA TVLGLFRVTP EIPAGLPSPR SE

Molecular weight: 23.8 kDa (222aa)

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for

longer.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

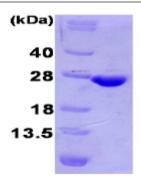
General Readings: Lee SW., et al. (2008). Nat Immunol. 9(8):917-26.

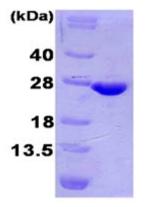
Sharma RK., et al. (2009). Cancer Res. 69(10):4319-26.



Pictures:

4-1BB ligand , 71-254 aa human, Histagged, recombinant: 15% SDS-PAGE (3 $\mu g)$





15% SDS-PAGE (3ug)