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**4-1BBL, human recombinant protein**  
TNFSF9, CD137L  
Catalog # PBV10254r**Specification**

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**4-1BBL, human recombinant protein - Product info**Primary Accession [P41273](#)  
Calculated MW **19.5 kDa KDa****4-1BBL, human recombinant protein - Additional Info**Gene ID **8744**  
Gene Symbol **TNFL9**  
**Other Names**  
TNFSF9, CD137LGene Source **Human**  
Source **E. coli**  
Assay&Purity **SDS-PAGE; ≥98%**  
Assay2&Purity2 **HPLC;**  
Recombinant **Yes**  
Results **10 ng/ml**  
**Target/Specificity**  
4-1BBL**Application Notes**

We recommend a quick spin followed by reconstitution in H<sub>2</sub>O to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

**Format**

Lyophilized protein

**Storage**

-20°C; Lyophilized from 5 mM Tris, pH 8.0 + 75 mM NaCl.

**4-1BBL, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**4-1BBL, human recombinant protein - Background**

Human 4-1BB Ligand (4-1BBL) is a member of the emerging family of Ligands with structural homology to tumor necrosis factor. Recombinant human 4-1BBL is a 19.5 kDa protein containing 185 amino acid residues, comprising the TNF-like extra-Cellular domain of 4-1BBL.