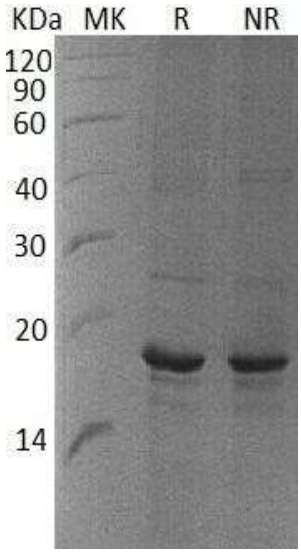
Recombinant Human ZBP1

Catalog No: C282

Description	Recombinant Human Z-DNA Binding Protein 1 is produced by our E.coli expression system and the target gene encoding Met1-Ser149 is expressed with a 6His tag at the C-terminus.
Source	*E.coli*
Alternative name	Z-DNA-Binding Protein 1; Tumor Stroma and Activated Macrophage Protein DLM; ZBP1; C20orf183; DLM1
Accession No.	Q9H171
Quality Control	Purity: >95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg).
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Background	Z-DNA Binding Protein 1 (ZBP1) is a protein with 2 DRADA repeats. ZBP1 is highly expressed in lymphatic tissues including lymph node, leukocytes, tonsil, bone marrow, and spleen. ZBP1 participates in the detection of viral and bacterial DNA from by the host's innate immune system. It plays a role in host defense against tumors and pathogens. ZBP1 Acts as a cytoplasmic DNA sensor which, when activated, induces the recruitment of TBK1 and IRF3 to its C-terminal region and activates the downstream interferon regulatory factor (IRF) and NF-kappa B transcription factors, leading to type-I interferon production. ZBP1-induced NF-kappaB activation probably involves the recruitment of the RHIM containing kinases RIPK1 and RIPK3.

SDS-PAGE



MK: Marker

R: Reducing sample

NR: Non-reducing sample