

Human ZBP1/DLM-1/DAI Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6309

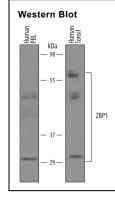
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human ZBP1/DLM-1/DAI in direct ELISAs and Western blots.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human ZBP1/DLM-1/DAI Ala2-Ile429 Accession # Q9H171		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human ZBP1/DLM-1/DAI by Western Blot. Western blot shows lysates of human peripheral blood lymphocytes (PBL) and human tonsil tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human ZBP1/DLM-1/DAI Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6309) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). Specific bands were detected for ZBP1/DLM-1/DAI at approximately 30-60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

ZBP1 (Z-DNA binding protein 1; also DAI and DLM-1) is a 15-60 kDa cytosolic detector of intracellular DNA. In a TOLL-independent manner, ZBP1 detects cytoplasmic dsDNA and initiates INF-β production. It does so by binding DNA, followed by multimerization and recruitment of TBK1 and IRF3. This is accompanied by a parallel interaction with RIP-1 and -3 that stimulates NFκB activity and cytokine production. Human ZBP1 is 429 amino acids (aa) in length. It contains two DNA-binding Z-regions (aa 6-72 and 103-168) plus a third DNA-binding region that likely lies in the region between aa 170-250. Multiple splice forms exist. One shows a deletion of aa 12-86, a second shows a 63 aa substitution for aa 87-429, a third contains a 24 aa substitution for aa 225-429, a fourth reveals a deletion of aa 87-109, while a fifth and sixth show 82 and 16 aa substitutions for aa 365-429, respectively. Full length human ZBP1 shares only 47% aa identity with mouse ZBP1.

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