

Rabbit anti-Human DAI/ZBP1 Polyclonal Antibody | anti-ZBP1 antibody

Anti-DAI/ZBP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125730	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

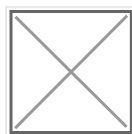
PRODUCT SYNONYMS

DAI/ZBP1; Polyclonal Antibody; Anti-DAI/ZBP1 Antibody; ZBP1; C20orf183; DLM1; Z-DNA-binding protein 1; Tumor stroma and activated macrophage protein DLM-1; Z-DNA binding protein 1; anti-ZBP1 antibody

PRODUCT SPECIFICATIONS

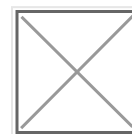
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Apolipoprotein DAI/ZBP1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-ZBP1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human DAI/ZBP1 recombinant protein (Position: A2-E421).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U87 cells using anti-DAI/ZBP1 antibody (AAA125730). Overlay histogram showing U87 cells stained with AAA125730 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DAI/ZBP1 Antibody (AAA125730, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of DAI/ZBP1 using anti-DAI/ZBP1 antibody (AAA125730). DAI/ZBP1 was detected in immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-DAI/ZBP1 Antibody (AAA125730) overnight at 4 degree C. DyLight[®]488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of DAI/ZBP1 using anti-DAI/ZBP1 antibody (AAA125730). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: human HEK293 whole cell lysates Lane 2: human Hela whole cell lysates Lane 3: human K562 whole cell lysates Lane 4: human Caco-2 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DAI/ZBP1 antigen affinity purified polyclonal antibody (Catalog # AAA125730) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for DAI/ZBP1 at approximately 63KD. The expected band size for DAI/ZBP1 is at 63KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ZBP1 antibody	Z-DNA-binding protein 1, also known as DNA-dependent activator of IFN-regulatory factors (DAI) and DLM-1, is a protein that in humans is encoded by the ZBP1 gene. This gene encodes a Z-DNA binding protein. The encoded protein plays a role in the innate immune response by binding to foreign DNA and inducing type-I interferon production. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
References	<ol style="list-style-type: none">1. Fu, Y., Comella, N., Tognazzi, K., Brown, L. F., Dvorak, H. F., Kocher, O. Cloning of DLM-1, a novel gene that is up-regulated in activated macrophages, using RNA differential display. <i>Gene</i> 240: 157-163, 1999.2. Jiao, H., Wachsmuth, L., Kumari, S., Schwarzer, R., Lin, J., Eren, R. O., Fisher, A., Lane, R., Young, G. R., Kassiotis, G., Kaiser, W. J., Pasparakis, M. Z-nucleic-acid sensing triggers ZBP1-dependent necroptosis and inflammation. <i>Nature</i> 580: 391-395, 2020. Note: Erratum: <i>Nature</i> 580: E10, 2020. Electronic Article.3. Rothenburg, S., Schwartz, T., Koch-Nolte, F., Haag, F. Complex regulation of the human gene for the Z-DNA binding protein DLM-1. <i>Nucleic Acids Res.</i> 30: 993-1000, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	238550212
NCBI GeneID	81030
NCBI Accession #	NP_001153891.1
NCBI GenBank Nucleotide #	NM_001160419.2
UniProt Accession #	Q9H171 ; Q5JY39 ; Q9BYW4 ; A2A2F7 ; B3KVA1 ; F5GYT1
Molecular Weight	46,343 Da
NCBI Official Full Name	Z-DNA-binding protein 1 isoform d
NCBI Official Synonym Full Names	Z-DNA binding protein 1
NCBI Official Symbol	ZBP1
NCBI Official Synonym Symbols	DAI; DLM1; DLM-1; C20orf183
NCBI Protein Information	Z-DNA-binding protein 1; DNA-dependent activator of IRFs; DNA-dependent activator of IFN-regulatory factors; tumor stroma and activated macrophage protein DLM-1; DNA-dependent activator of interferon regulatory factors
UniProt Protein Name	Z-DNA-binding protein 1
UniProt Gene Name	ZBP1
UniProt Synonym Gene Names	C20orf183; DLM1
UniProt Entry Name	ZBP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/dai-zbp1-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125730>