

Datasheet: AHP1780T

Description:	RABBIT ANTI DAI
Specificity:	DAI
Other names:	ZBP1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Western Blotting (2)	▪			0.5 - 1.0ug/ml
Immunofluorescence			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) **This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

(2) **Reduced and denatured conditions**

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human DAI were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml

Immunogen Synthetic peptide corresponding to an 18 amino acid sequence from near the carboxy terminus of human ZBP1.

External Database Links

UniProt:
[Q9H171](#) [Related reagents](#)

Entrez Gene:
[81030](#) ZBP1 [Related reagents](#)

Synonyms C20orf183, DLM1

Specificity **Rabbit anti DAI antibody** recognizes human DAI, also known as Z-DNA Binding Protein (ZBP1), a ~46 kDa DNA binding protein belonging to a family of proteins that contain a Za domain which specifically binds to the left-handed Z-DNA and Z-RNA.

DAI may be involved in processes such host response to neoplasia. cytosolic DAI can act like the toll-like receptor TLR9 by detecting cytosolic double-stranded (ds) DNA and trigger induction of type I interferon and other innate immune responses. It is thought that the binding of DAI to dsDNA enhances its association with innate immune response proteins such as the IRF3 transcription factor and the serine/threonine kinase TBK1 (also known as NAK).

DAI is highly expressed in lymphatic tissues such as lymph nodes, leukocytes, tonsil, bone marrow and spleen. Expression at a lower level is also seen in thymus, lung and liver. Multiple isoforms of DAI exist.

Western Blotting AHP1780T detects a band of approximately 46 kDa in mouse small intestine tissue lysate

References

1. Takaoka, A. *et al.* (2007) DAI (DLM-1/ZBP1) is a cytosolic DNA sensor and an activator of innate immune response. [Nature. 448 \(7152\): 501-5.](#)
2. Schwartz, T. *et al.* (2001) Structure of the DLM-1-Z-DNA complex reveals a conserved family of Z-DNA-binding proteins. [Nat Struct Biol. 8 \(9\): 761-5.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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