

Rabbit ADA Polyclonal Antibody | anti-ADA antibody

ADA Antibody

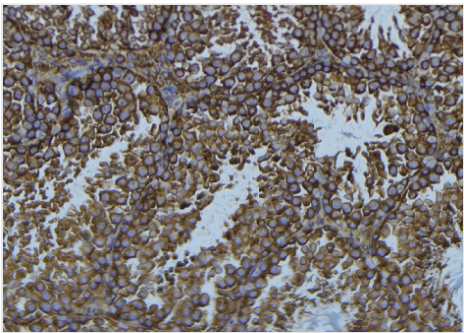
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325965	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

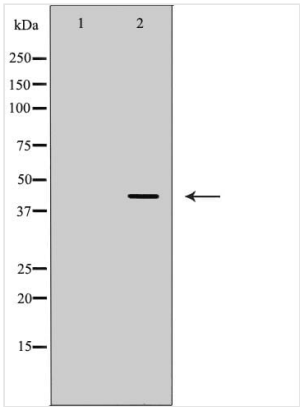
ADA; Polyclonal Antibody; ADA Antibody; ada; ADA_HUMAN; ADA1; Adenosine aminohydrolase; Adenosine deaminase; anti-ADA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ADA antibody detects endogenous levels of total ADA
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	363
Applicable Applications for anti-ADA antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ADA
Subcellular Location	Cell Membrane. Cell Junction. Cytoplasmic Vesicle Lumen. Cytoplasm. Colocalized with DPP4 at the cell junction in lymphocyte-epithelial cell adhesion.
Tissue Specificity	Found in all tissues, occurs in large amounts in T-lymphocytes (PubMed:20959412). Expressed at the time of weaning in gastrointestinal tissues.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (91%), Bovine (92%), Horse (92%), Sheep (100%), Rabbit (100%), Dog (83%), Chicken (91%), Xenopus (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA325965 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using ADA Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ADA antibody

Description: This gene encodes an enzyme that catalyzes the hydrolysis of adenosine to inosine. Various mutations have been described for this gene and have been linked to human diseases. Deficiency in this enzyme causes a form of severe combined immunodeficiency disease (SCID), in which there is dysfunction of both B and T lymphocytes with impaired cellular immunity and decreased production of immunoglobulins, whereas elevated levels of this enzyme have been associated with congenital hemolytic anemia. [provided by RefSeq, Jul 2008]
Function: Catalyzes the hydrolytic deamination of adenosine and 2-deoxyadenosine (PubMed:8452534, PubMed:16670267). Plays an important role in purine metabolism and in adenosine homeostasis. Modulates signaling by extracellular adenosine, and so contributes indirectly to cellular signaling events. Acts as a positive regulator of T-cell coactivation, by binding DPP4 (PubMed:20959412). Its interaction with DPP4 regulates lymphocyte-epithelial cell adhesion (PubMed:11772392). Enhances dendritic cell immunogenicity by affecting dendritic cell costimulatory molecule expression and cytokines and chemokines secretion (By similarity). Enhances CD4+ T-cell differentiation and proliferation (PubMed:20959412). Acts as a positive modulator of adenosine receptors ADORA1 and ADORA2A, by enhancing their ligand affinity via conformational change (PubMed:23193172). Stimulates plasminogen activation (PubMed:15016824). Plays a role in male fertility (PubMed:21919946, PubMed:26166670). Plays a protective role in early postimplantation embryonic development (By similarity).
Subunit Structure: Interacts with DPP4 (via extracellular domain) (PubMed:10951221, PubMed:14691230, PubMed:7907293, PubMed:8101391, PubMed:15016824). Interacts with PLG (via Kringle 4 domain); the interaction stimulates PLG activation when in complex with DPP4 (PubMed:15016824).
Similarity: Belongs to the metallo-dependent hydrolases superfamily. Adenosine and AMP deaminases family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47078295
NCBI GeneID	100
NCBI Accession #	NP_000013.2
NCBI GenBank Nucleotide #	NM_000022.3
UniProt Accession #	P00813; Q53F92; Q6LA59
Molecular Weight	Observed: 41 kDa Predicted: 41 kDa
NCBI Official Full Name	adenosine deaminase isoform 1
NCBI Official Synonym Full Names	adenosine deaminase
NCBI Official Symbol	ADA
NCBI Protein Information	adenosine deaminase

UniProt Protein Name	Adenosine deaminase
UniProt Gene Name	ADA
UniProt Synonym Gene Names	ADA1

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ada-antibody-immunohistochemistry-western-blot-elisa/325965>