

Mouse anti-Human ADA Monoclonal Antibody | anti-ADA antibody

ADA Antibody (C-term)

CATALOG # AAA290954	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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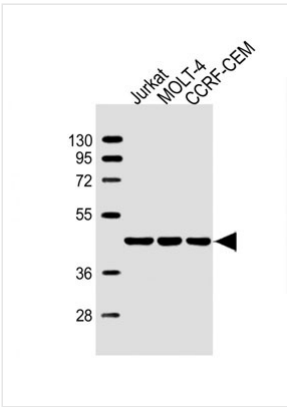
PRODUCT SYNONYMS

ADA; Monoclonal Antibody; ADA Antibody (C-term); Adenosine deaminase; Adenosine aminohydrolase; ADA1; anti-ADA antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Specificity	This ADA antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 287-314 amino acids from the C-terminal region of human ADA.
Sequence Length	363
Applicable Applications for anti-ADA antibody	ELISA, WB (Western Blot)
Function	Catalyzes the hydrolytic deamination of adenosine and 2- deoxyadenosine (PubMed: , 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:). Its interaction with DPP4 regulates lymphocyte-epithelial cell adhesion (PubMed:). 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:). Acts as a positive modulator of adenosine receptors ADORA1 and ADORA2A, by enhancing their ligand affinity via conformational change (PubMed:). Stimulates plasminogen activation (PubMed:). Plays a role in male fertility (PubMed: , PubMed:26166670). Plays a protective role in early postimplantation embryonic development (By similarity).
Cellular Location	Cell membrane Peripheral membrane protein; Extracellular side. Cell junction. Cytoplasmic vesicle lumen {ECO:0000250 UniProtKB:P03958}. Cytoplasm. Lysosome. Note=Colocalized with DPP4 at the cell surface.
Tissue Location	Found in all tissues, occurs in large amounts in T- lymphocytes (PubMed:20959412). Expressed at the time of weaning in gastrointestinal tissues.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
All lanes : Anti-ADA Antibody (C-term) at 1:4000 dilution
Lane 1: Jurkat whole cell lysate
Lane 2: MOLT-4 whole cell lysate
Lane 3: CCRF-CEM whole cell lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 41 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-ADA antibody	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.
Product Categories/Family for anti-ADA antibody	Cancer; Metabolism
References	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Gloria-Bottini, F., et al. Am. J. Med. Sci. 340(2):103-108(2010). Levine, A.J., et al. Cancer Epidemiol. Biomarkers Prev. 19(7):1812-1821(2010). Spina, C., et al. Cancer Invest. (2010). Ri, G., et al. Anticancer Res. 30(6):2347-2349(2010).

NCBI AND UNIPROT INFORMATION

NCBI GI #	47078295
NCBI GeneID	100
NCBI Accession #	NP_000013.2
NCBI GenBank Nucleotide #	NP_000013.2
UniProt Accession #	P00813
Molecular Weight	H=41kDa
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
UniProt Entry Name	ADA_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ada-antibody-western-blot-elisa/290954>