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ADA Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP11650b

Specification

ADA Antibody (C-term) Blocking peptide - Product Information

Primary Accession P00813

ADA Antibody (C-term) Blocking peptide - Additional Information

Gene ID 100

Other Names
Adenosine deaminase, Adenosine aminohydrolase, ADA, ADA1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ADA Antibody (C-term) Blocking peptide - Protein Information

Name ADA

Synonyms ADA1

Function
Catalyzes the hydrolytic deamination of adenosine and 2- deoxyadenosine (PubMed:8452534, PubMed:16670267, PubMed:23193172, PubMed:9361033, PubMed:26166670). 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).

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.

ADA Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

ADA Antibody (C-term) Blocking peptide - Images

ADA Antibody (C-term) Blocking peptide - Background

This gene encodes an enzyme that catalyzes the hydrolysisof adenosine to inosine. Various mutations have been described forthis gene and have been linked to human diseases. Deficiency inthis enzyme causes a form of severe combined immunodeficiencydisease (SCID), in which there is dysfunction of both B and Tlymphocytes with impaired cellular immunity and decreasedproduction of immunoglobulins, whereas elevated levels of thisenzyme have been associated with congenital hemolytic anemia.

ADA Antibody (C-term) Blocking peptide - 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) In press :Ri, G., et al. Anticancer Res. 30(6):2347-2349(2010)