10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# ADA Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ADA.
Catalog # AT1040a

## Product Information

| | |
|---|---|
| **Application** | WB |
| **Primary Accession** | P00813 |
| **Other Accession** | BC040226 |
| **Reactivity** | Human |
| **Host** | mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG1 Kappa |
| **Clone Names** | 4G4-1C6 |
| **Calculated MW** | 40764 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 100 |
| **Other Names** | Adenosine deaminase, Adenosine aminohydrolase, ADA, ADA1 |
| **Target/Specificity** | ADA (AAH40226.1, 1 a.a. ~ 363 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Dilution** | WB~~1:500~1000 |
| **Format** | Clear, colorless solution in phosphate buffered saline, pH 7.2 . |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |
| **Precautions** | ADA Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Background

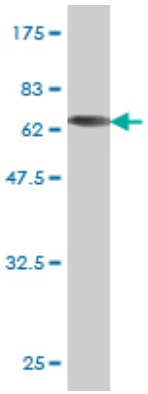
This gene encodes an enzyme that catalyzes the hydrolysis of adenosine to inosine. Various mutations have been described for this gene and have been linked to human diseases. Deficiency in this enzyme causes a form of severe combined immunodeficiency disease (SCID), in which there is dysfunction of both 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.

## References

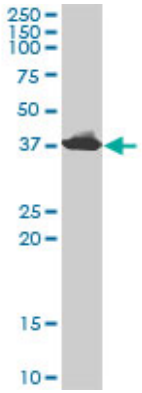
An indication for correlation between the serum ADA level and gastric cancer risk. Ri G, et al. Anticancer Res, 2010 Jun. PMID 20651391.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced

Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.A candidate gene study of folate-associated one carbon metabolism genes and colorectal cancer risk. Levine AJ, et al. Cancer Epidemiol Biomarkers Prev, 2010 Jul. PMID 20615890.A Study of Three Polymorphic Sites of ADA Gene in Colon Cancer. Spina C, et al. Cancer Invest, 2010 Jun 30. PMID 20590444.The interaction of ACP1, ADA1, diabetes and gender in coronary artery disease. Gloria-Bottini F, et al. Am J Med Sci, 2010 Aug. PMID 20581655.

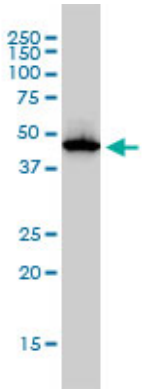
## Images




Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (65.45 KDa) .




ADA monoclonal antibody (M01), clone 4G4-1C6. Western Blot analysis of ADA expression in HL-60 ( (Cat # AT1040a )




ADA monoclonal antibody (M01), clone 4G4-1C6. Western Blot analysis of ADA expression in Jurkat ( (Cat # AT1040a )