DATASHEET

Adenosine Deaminase Rabbit Polyclonal Antibody

CAT. NO. APA13282

KEY FEATURES

Target	Adenosine Deaminase	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Catalyzes the hydrolytic deamination of adenosine and 2-deoxyadenosine . 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 . Its interaction with DPP4 regulates lymphocyte-epithelial cell adhesion . Enhances dendritic cell immunogenicity by affecting dendritic cell costimulatory molecule expression and cytokines and chemokines secretion . Enhances CD4+ T-cell differentiation and proliferation . Acts as a positive modulator of adenosine receptors ADORA1 and ADORA2A, by enhancing their ligand affinity via conformational change . Stimulates plasminogen activation .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to Adenosine Deaminase
Specificity	Recognizes endogenous levels of Adenosine Deaminase protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human Adenosine Deaminase
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 40 kD; Observed: 41 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ADA1; Adenosine deaminase; Adenosine aminohydrolase
Gene Symbol	ADA
Entrez Gene	100(Human); 11486(Mouse); 24165(Rat)
SwissProt	P00813(Human); P03958(Mouse); Q920P6(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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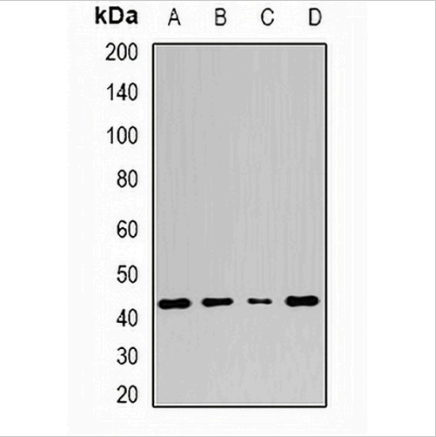
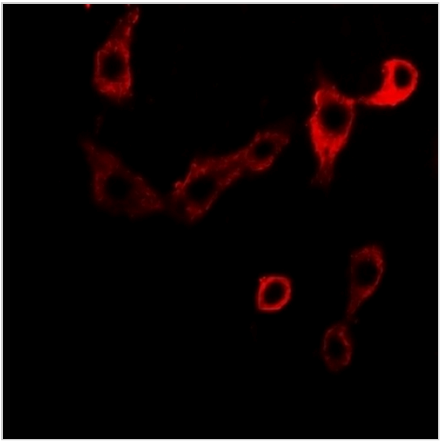
DATA



Western blot analysis of Adenosine Deaminase expression in A549 (A), Jurkat (B), mouse spleen (C), mouse stomach (D) whole cell lysates. (Predicted band size: 40 kD; Observed band size: 41 kD)



Immunofluorescent analysis of Adenosine Deaminase staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.