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ADORA3 Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21791b

Product Information

Application	WB, E
Primary Accession	P0DMS8
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53326
Calculated MW	36185

Additional Information

Gene ID	140
Target/Specificity	This ADORA3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 202-232 amino acids from human ADORA3.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ADORA3 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ADORA3 (HGNC:268)
Function	G protein-coupled receptor (GPCR) for adenosine that plays significant roles in various physiological processes including immune regulation, cardioprotection and neuroprotection (PubMed:38627384, PubMed:40825947, PubMed:9837869). Also acts as a receptor for adenosines containing N(6)-methylated adenine (m6A) post- transcriptional modification, which are derived from the degradation of RNAs (mRNAs, rRNAs and tRNAs): activated by N(6)-methyladenosine (m6A), N(6),N(6)-dimethyladenosine (m6,6A) and N(6)-isopentenyladenosine (i6A) (PubMed:33472058,

PubMed:39511145). Preferentially couples to the inhibitory G protein (Gi), leading to the suppression of adenylate cyclase activity and a reduction in intracellular cyclic AMP levels (PubMed:33472058, PubMed:38627384). Upon adenosine binding, mediates cardioprotection in cardiomyocytes through anti-apoptotic effects primarily via the ERK1/2 pathway as well as the PI3K pathway (PubMed:9837869). In the central nervous system, participates in the modulation of synaptic plasticity, including long-term potentiation (LTP) and long-term depression (LTD) in the hippocampus (By similarity). In lung mast cells, receptor activation contributes to the type I allergic response by facilitating mast cell degranulation and histamine release (By similarity). Highly expressed in inflammatory cells such as neutrophils and mast cells, inhibits neutrophil degranulation and reduces superoxide production, thereby modulating inflammatory responses (PubMed:9164961).

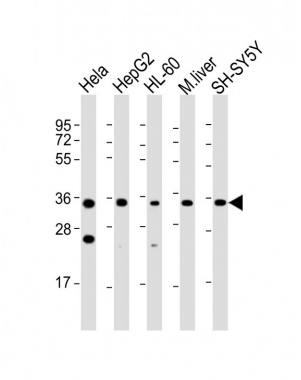
Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q28309}; Multi-pass membrane protein

Tissue Location

Expressed in the lung and bone. Expressed at lower levels in osteosarcoma tissues (at protein level)

Images



All lanes : Anti-ADORA3 Antibody (C-Term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: HL-60 whole cell lysate Lane 4: mouse liver lysate Lane 5: SH-SY5Y whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 36 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.