

DESCRIPTION

Target:	ADORA2A
Target aliases:	ADORA2, RDC8, A2aR
Fc isotype:	IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (Others untested)
Extracellular epitope:	Unknown
Fc modifications:	C-terminal Avitag ¹ , disabled Fc- γ receptor binding ²
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- γ receptor binding site to minimize non-specific antibody binding.

ADORA2A TARGET INFORMATION

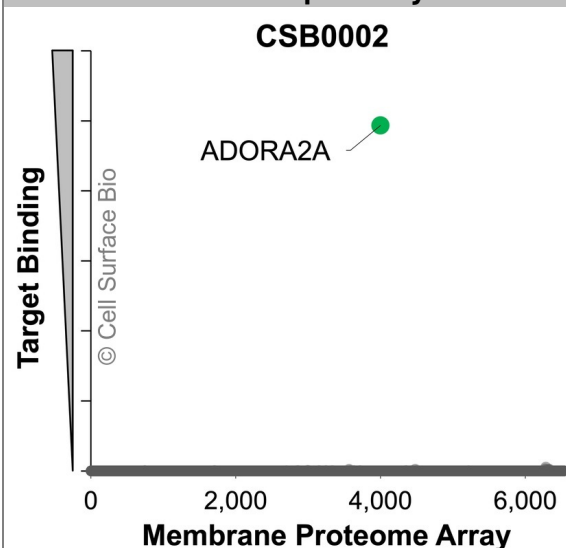
ADORA2A is a member of the G-protein coupled receptor family, which is a group of seven-pass transmembrane proteins. This protein binds adenosine and interacts with G proteins to activate adenylyl cyclase and increase intracellular CAMP levels. ADORA2A is involved in cardiac rhythm, circulation, immune function, pain regulation, sleep, and may play a role in inflammatory diseases and neurodegenerative disorders. (NCBI Gene: 135, UniProtKB/Swiss-Prot: P29274) Other names: ADORA2, RDC8, A2aR

SHIPPING AND STORAGE

Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA

Membrane Proteome Specificity



The specificity of ADORA2A Monoclonal Antibody (CSB0002) was tested on the Membrane Proteome Array™ and shown to be specific for ADORA2A.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

Applications

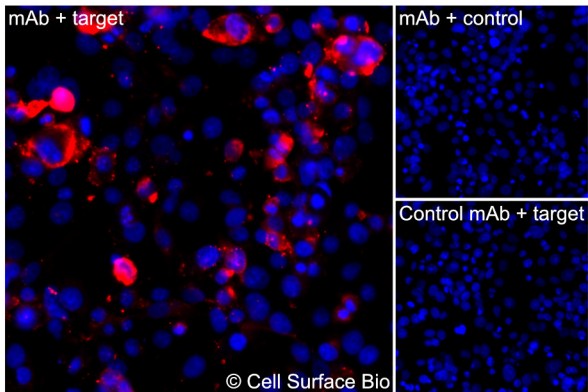
Immunofluorescence, Intracellular

Conditions

Fixed 4% paraformaldehyde,
Permeabilized 0.1% Triton X-100

Recommended concentration

1 µg/ml



(Left) COS-7 cells transiently transfected ADORA2A were permeabilized and stained with ADORA2A Monoclonal Antibody (CSB0002) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with ADORA2A Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.