

Mouse Monoclonal antibody

anti-human A2AR

Cat # NB-19-0002 size: 100 uL

Description

Adenosine is an endogenous nucleoside released from cells by facilitated diffusion and is also produced extracellularly by degradation of ATP. Adenosine receptors are subdivided into four G-coupled protein receptors subtypes (A1, A2A, A2B and A3) depending on their pharmacological properties to exert numerous effects on various tissues including the central nervous system.

Most of the anti-inflammatory effects of adenosine have been assigned to the A2A receptor subtype (A2AR).

A2AR is expressed in many immune and inflammatory cells and is up-regulated by T- helper cell type 1 cytokines. Because changes of peripheral A2AR reflect changes that occur at the injured tissue. A2AR assay appears as a valuable marker for monitoring treatment in patients with inflammatory cells infiltrating the failing organ.

Product Information

Host:	Mouse
Applications:	ELISA, WB
Reactivity:	Human
Clonality:	Monoclonal
Clone ID:	ADONIS
Conjugation:	Unconjugated
Isotype:	IgM
Formulation:	Antibody obtained by ammonium sulphate precipitation.
Constituent:	PBS pH 7.4
Concentration:	>1 mg/mL (exact concentration is lot-dependent)
Storage Instruction:	For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Target

Protein Name:	A2A receptor subtype (A2AR)
Immunogen:	C-Terminal part of second extracellular loop of the A2A receptor

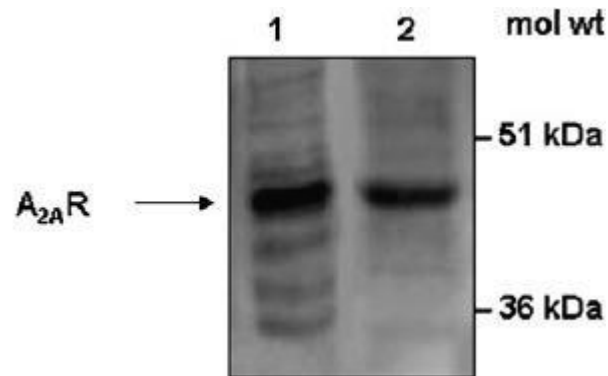
Applications

This antibody is recommended for detection of A2A receptor subtype (A2AR) of human origin by ELISA, Western Blotting. For functional activity, a custom size azide-free is available.

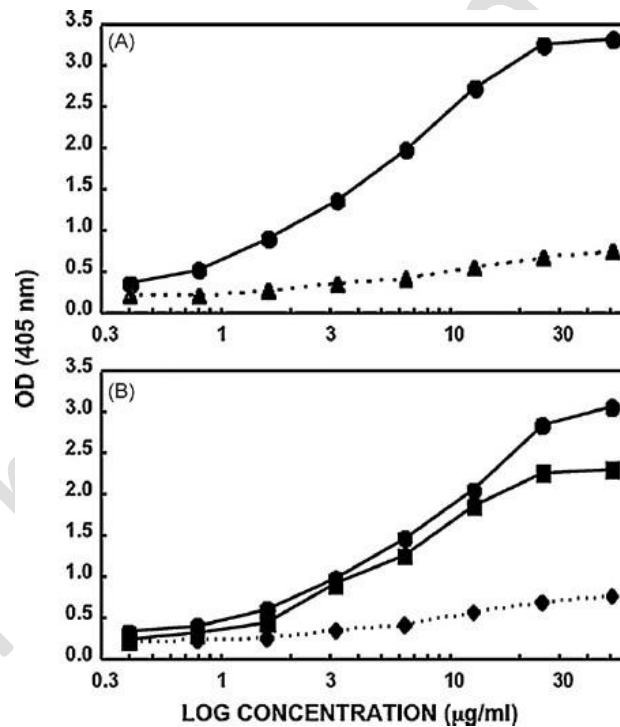
Precaution

For professional users. Proper handling of this product as with any product derived from biological sources according to local and applicable regulations.

Data



Western blots of the Adonis binding on reduced lysate of A_{2A}-Chem-3 cells (lane 1) and human PBMC (lane 2).



Dose-response curves of Adonis binding to: (A) the immunogen peptide, uncoated wells served as blanks and (B) glutaraldehyde fixed A_{2A}-Chem-3 cells (circle) and normal human PBMC (square), glutaraldehyde-treated uncoated wells (lozenge) served as blanks. Results are given in optical density read at 405nm and are the mean values of duplicates.

References

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For reference only