

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human AATK in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 456006
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human AATK Asn421-Ala589 Accession # AAH47378
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	A172 human glioblastoma cell line fixed with paraformaldehyde and permeabilized with saponin

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Apoptosis-associated tyrosine kinase (AATK) is a 155 kDa membrane-associated intracellular protein that promotes neurite extension and neuronal differentiation. Low extracellular potassium levels induce AATK phosphorylation and apoptosis in cerebellar granule cells. AATK negatively regulates the Na-K-2Cl cotransporter by promoting its PP1-dependent dephosphorylation. The two alternate splice forms of AATK also contain the sequences included in this immunogen. Within this region, human AATK shares 63% aa sequence identity with mouse AATK.

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