

DESCRIPTION

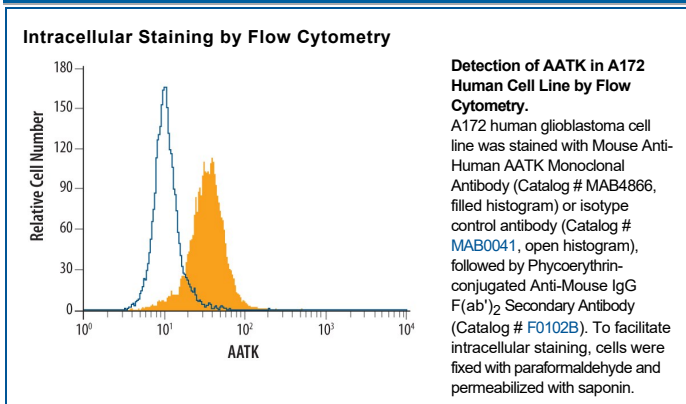
Species Reactivity	Human
Specificity	Detects human AATK in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 456006
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human AATK Asn421-Ala589 Accession # AAH47378
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.