

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ABI1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 1013203
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human ABI1 Val429-Asp508 Accession # Q8IZP0
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.

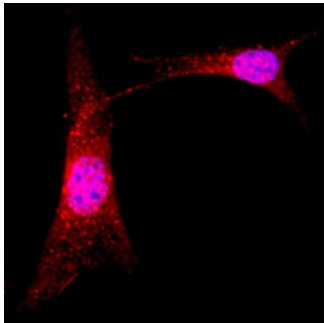
APPLICATIONS

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
Immunocytochemistry	5-25 µg/mL	See Below
Immunohistochemistry	1-25 µg/mL	See Below

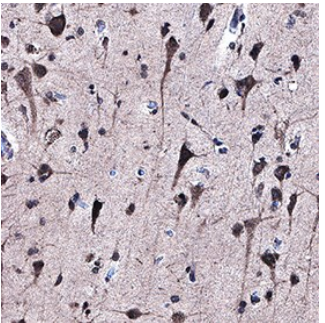
DATA

Immunocytochemistry



ABI1 in A549 Human Cell Line. ABI1 was detected in immersion fixed A549 human lung carcinoma cell line using Mouse Anti-Human ABI1 Monoclonal Antibody (Catalog # MAB10249) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

Immunohistochemistry



ABI1 in Human Brain Tissue. ABI1 was detected in immersion fixed paraffin-embedded sections of human brain (cortex) tissue using Mouse Anti-Human ABI1 Monoclonal Antibody (Catalog # MAB10249) at 1.7 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in neurons. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

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

Abelson Interactor 1 (ABI1) is an adaptor protein involved in cytoskeletal reorganization and EGFR signaling. Overexpression of ABI1 inhibits EGF-induced activation of Erks which negatively regulate cell growth and transformation. In the brain, ABI1 seems to regulate dendritic outgrowth and determines the shape and number of synaptic contacts of developing neurons.

References:

1. UniProt: The Universal Protein Knowledgebase. (2017) *Nucleic Acids Res.* **45**: D158-D169.
2. Fan, P.-D. and S.P. Goff (2000) *Mol. Cell. Biol.* **20**:7591.
3. Xiong X. *et al.* (2008) *Biochim Biophys. Acta* **1783**:737.