

DESCRIPTION

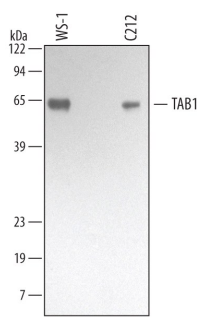
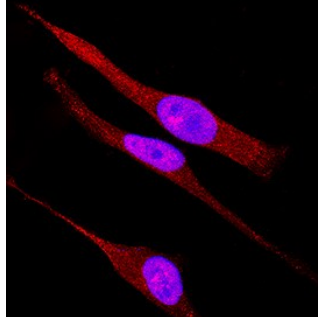
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse TAB1.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TAB1 Ser7-Glu159 Accession # Q15750
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human/Mouse TAB1 by Western Blot. Western blot shows lysates of WS-1 human fetal skin fibroblast cell line and C2C12 mouse myoblast cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse TAB1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3578) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for TAB1 at approximately 65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.</p>	<p>Immunocytochemistry</p>  <p>TAB1 in HeLa Human Cell Line. TAB1 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Goat Anti-Human/Mouse TAB1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3578) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

TAK1-binding protein 1 (TAB1), also known as MAP3K7IP1, is an activator of the MAP3K TAK1. The C-terminal 68 amino acids of TAB1 are sufficient for binding and activation of TAK1, while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF-β, suggesting that TAB1 may function as a signaling intermediate between TGF-β receptors and TAK1. TAB1 also promotes autophosphorylation and activation of the MAPK p38α.