

DESCRIPTION

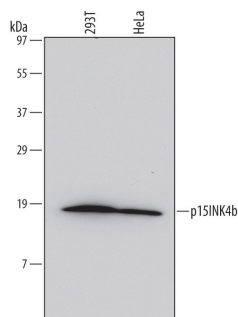
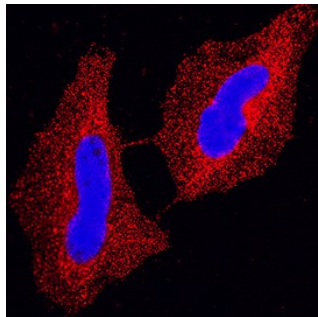
Species Reactivity	Human
Specificity	Detects human p15INK4b/CDKN2B in direct ELISAs and Western blots. In Western blots, approximately 50% cross-reactivity with recombinant human (rh) p16INK4a and no cross-reactivity with rhp18INK4c or rhp19INK4d is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 651308
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human p15INK4b/CDKN2B Arg2-Asp138 Accession # P42772
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	3-25 µg/mL	See Below

DATA

<p>Western Blot</p> 	<p>Detection of Human p15INK4b/CDKN2B by Western Blot. Western blot shows lysates of 293T human embryonic kidney cell line and HeLa human cervical epithelial carcinoma cell line. PVDF Membrane was probed with 1 µg/mL of Mouse Anti-Human p15INK4b/CDKN2B Monoclonal Antibody (Catalog # MAB6798) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for p15INK4b/CDKN2B at approximately 15 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>p15INK4b/CDKN2B in HeLa Human Cell Line. p15INK4b/CDKN2B was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Mouse Anti-Human p15INK4b/CDKN2B Monoclonal Antibody (Catalog # MAB6798) at 3 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.</p>
---	--	---

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

p15INK4B is an approximately 15 kDa member of the p16INK4 family. Human p15INK4B is 138 amino acids (aa) in length and contains four ankyrin repeats, a common structural sequence found in members of the INK4 family. The first 50 aa of p15INK4B share 44% sequence identity with p16INK4. Following this is an 81 aa region sharing 97% sequence identity, after which the two proteins diverge. Human p15INK4B shares 83% aa sequence identity with mouse and rat p15INK4B. Functionally, p15INK4B interacts strongly with CDK4 and CDK6 and is a potent inhibitor. p15INK4B can potentially induce cell cycle arrest by acting as an effector of TGF-β.