

## DESCRIPTION

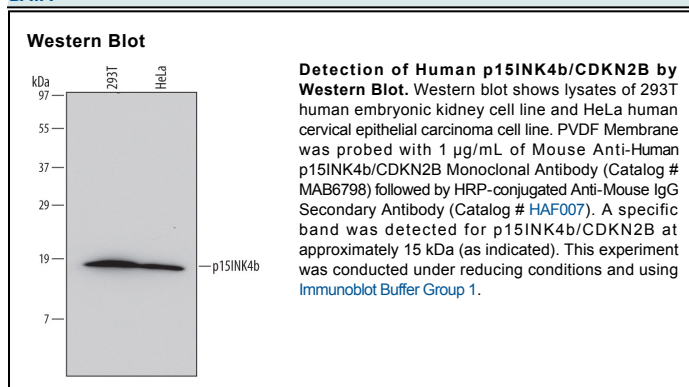
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human p15INK4b/CDKN2B in direct ELISAs and Western blots. In Western blots, approximately 50% cross-reactivity with recombinant human (rh) p16INK4a and no cross-reactivity with rhp18INK4c or rhp19INK4d is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 651308
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human p15INK4b/CDKN2B Arg2-Asp138 Accession # P42772
<b>Formulation</b>	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
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.