

DESCRIPTION

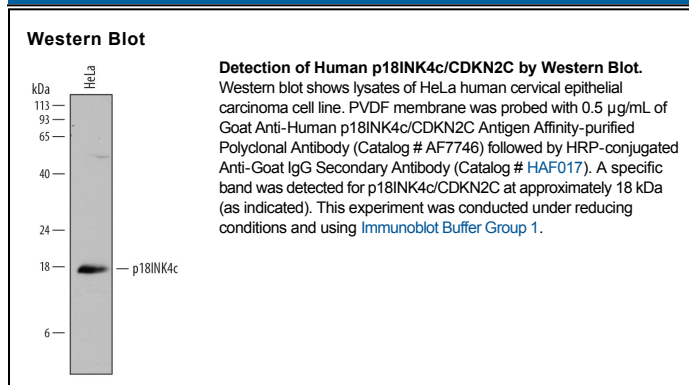
Species Reactivity	Human
Specificity	Detects human p18INK4c/CDKN2C in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human p19INK4d is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human p18INK4c/CDKN2C Ala2-Gln168 Accession # P42773
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	0.5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 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

p18INK4c (18 kDa Inhibitor of CDK4-c; also p18-INK6 and cyclin-dependent kinase 6 inhibitor) is an 18-19 kDa member of the CDKN2 cyclin-dependent kinase inhibitor family of molecules. It is expressed in skeletal muscle, macrophages, T cells and B cells where it serves as a negative regulator of cell proliferation. It does so by specifically associating with either CDK4 or, principally, CDK6, thereby blocking cyclin binding and the activity that leads to a G1-to-S cell cycle transition. In the case of B cells, this activity is necessary for the development of plasma cells. Human p18INK4c is 168 amino acids (aa) in length. It contains four "L" shaped ankyrin repeats (aa 4-132) that interact with cyclin. The C-terminus is described as containing a fifth ankyrin repeat, one that may act to reverse cell cycle repression. Full-length human p18INK4c shares 92% aa sequence identity with mouse p18INK4c.