

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
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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