

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 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.