

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CKAP4/p63 in direct ELISAs and Western blots. In direct ELISAs, approximately 45% cross-reactivity with recombinant mouse CKAP4/p63 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CKAP4/p63 His128-Val602 Accession # Q07065
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.
Immunocytochemistry	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

CKAP4 (Cytoskeleton-associated protein 4; also CLIMP63 and p63) is a 63-64 kDa molecule that belongs to no known protein family. It is found intracellularly, and on the plasma membrane of select cells such as vascular smooth muscle and Type II Greater alveolar lung cells. CKAP4 has a bimodal distribution. First, it is embedded in the membrane of a compartment that links the ER with the Golgi apparatus. This localization is dependent upon its ability to form homooligomers, and its presence serves to anchor microtubules and direct the formation of tubular ER. Second, it is embedded in the plasma membrane and serves as a receptor for SP-A/surfactant protein-A (in lung) and tPA (in vessels). Human CKAP4 is a 602 amino acid (aa) type II transmembrane nonglycosylated protein. It contains a 106 aa N-terminal cytoplasmic region plus a 475 aa C-terminal luminal domain (aa 128-602). The luminal domain contains three coiled-coil regions (aa 130-214; 256-460; 533-602) plus three utilized phosphorylation sites. CKAP4 undergoes reversible palmitoylation. There are two potential isoform variants. One contains an alternative start at Met269, while another shows a deletion of aa 258-435. Over aa 128-602, human CKAP4 shares 82% aa sequence identity with mouse CKAP4.

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.