

DESCRIPTION

Species Reactivity	Human
Specificity	Detects recombinant human CKAP4 in Direct ELISA.
Source	Monoclonal Mouse IgG Clone # 1086526
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line, NS0-derived human CKAP-4 His128-Val602 Accession # Q07065
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
Immunohistochemistry	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.

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