

Product Data Sheet

Purified anti-Cytokeratin 7/17

Catalog # / Size: 628702 / 100 µg

Clone: C-46

Isotype: Mouse IgG1, κ

Immunogen: Cytoskeleton preparation derived from HeLa cells

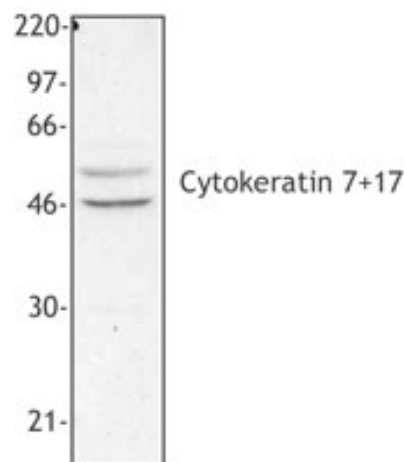
Reactivity: Human, bovine, porcine (does not recognize Mouse, rat, or rabbit)

Preparation: The antibody was purified by affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide at 0.5 mg/ml.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



HeLa cell extract was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-cytokeratin 7 + 17 antibody (clone C-46). Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.

Applications:

Applications: WB - *Quality tested*
 IP, IHC, ICC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 µg antibody per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Application References: 1. Vojtesek B, *et al.* 1990. *Neoplasia* 37:333.

Description: Cytokeratins are proteins that are involved in the cytoskeleton. The cyto keratin proteins are heterotetramers composed of two type I and two type II subunits. Cytokeratin 17 is a type I protein and cytokeratin 7 is a type II intermediate filament protein, each protein contains three coiled-coil domains. Cytokeratin 7 has an approximate molecular weight of 54 kD; cytokeratin 17 has an approximate molecular weight of 46 kD. Cytokeratin 17 is expressed in the basal cells of complex epithelia, but not in stratified or simple epithelia. Cytokeratin 7 is expressed in the epidermis, bronchus, and mesothelium but not in the colon, exocervix or liver. Mutations in cytokeratin 17 have been shown to result in pachyonychia congenital. Cytokeratin 17 has been shown to interact with the EGF receptor. Cytokeratin 7 has been shown to interact with the EGF receptor and heat shock protein 70 kD1A. The C-46 monoclonal antibody recognizes human, bovine and porcine (but not mouse, rat, or rabbit) cytokeratin 7 and cytokeratin 17 and is useful for Western blotting. This antibody has also been reported to be useful for immunoprecipitation, immunohistochemistry (paraffin sections), and immunocytochemistry.

Antigen References: 1. Glass C, *et al.* 1988. *J. Cell Biol.* 107:1337.
 2. Troyanovsky SM, *et al.* 1992. *Eur. J. Cell Biol.* 59:127.
 3. Terrinoni A, *et al.* 2001. *J. Invest. Dermatol.* 117:1391.

Related Products: **Product**
 HRP Goat anti-mouse IgG (minimal x-reactivity)

Clone
 Poly4053

Application
 ELISA, IHC, WB



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