

#3473 Store at -20°C

Keratin 7 Antibody



✓ 100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #3855
Swiss-Prot Acc. #P08729

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, (Mk)	52 kDa	Rabbit**

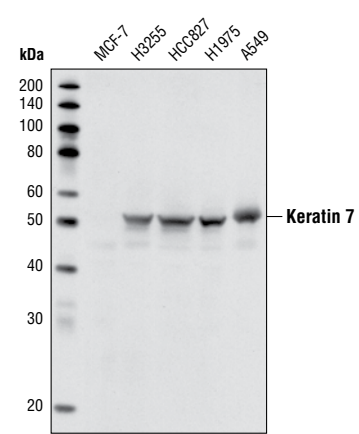
Background: Keratins (cytokeratins) are intermediate filament proteins that are mainly expressed in epithelial cells. Keratins assemble into filaments, forming heterodimers of an acidic keratin (or type I keratin, keratins 9 to 23) and a basic keratin (or type II keratin, keratins 1 to 8) (1,2). Keratin isoforms demonstrate tissue- and differentiation-specific profiles, that make them useful as biomarkers (1). Mutations in keratin genes are associated with skin disorders, liver and pancreatic diseases, and inflammatory intestinal diseases (3-6). Keratin 7 and Keratin 19 are present in hepatic and pancreatic progenitor/stem cells (7,8).

Specificity/Sensitivity: Keratin 7 Antibody detects endogenous levels of keratin 7 protein.

Source/Purification: Polyclonal antibodies are generated by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to amino acids at the amino-terminus of human keratin 7. Polyclonal antibodies are purified by Protein A and peptide affinity chromatography.

Background References:

- (1) Moll, R. et al. (1982) *Cell* 31, 11–24.
- (2) Chang, L. and Goldman, R.D. (2004) *Nat. Rev. Mol. Cell Biol.* 5, 601–613.
- (3) Ramaekers, F.C. and Bosman, F.T. (2004) *J. Pathol.* 204, 351–354.
- (4) Lane, E.B. and McLean, W.H. (2004) *J. Pathol.* 204, 355–366.
- (5) Zatloukal, K. et al. (2004) *J. Pathol.* 204, 367–376.
- (6) Owens, D.W. and Lane, E.B. (2004) *J. Pathol.* 204, 377–385.
- (7) Iyer, A. et al. (2008) *Hum. Pathol.* 39, 1370–1377.
- (8) Meier, K. et al. (2008) *Ann Anat.* [Epub ahead of print].



Western blot analyses of extracts of various cell lines using Keratin 7 Antibody. Note that MCF-7 are negative for Keratin 7, as expected.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine

Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.