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## Keratin 7 (R458) Antibody



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Applications: Entrez-Gene Id: Reactivity: Sensitivity: MW (kDa): Source: **UniProt ID:** WB, IF-IC Н Endogenous 55 Rabbit #P08729 3855 **Product Usage** Application Dilution Information 1:1000 Western Blotting Immunofluorescence (Immunocytochemistry) 1.50 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at -**Storage** 20°C. Do not aliquot the antibody. Keratin 7 (R458) Antibody detects endogenous levels of total keratin 7 protein. Specificity / Sensitivity

Source / Purification

**Background References** 

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human keratin 7 protein. Antibodies are purified by protein A and peptide affinity chromatography.

**Background** 

Keratins (cytokeratins) are intermediate filament proteins that are mainly expressed in epithelial cells. Keratin heterodimers composed of an acidic keratin (or type I keratin, keratins 9 to 23) and a basic keratin (or type II keratin, keratins 1 to 8) assemble to form filaments (1,2). Keratin isoforms demonstrate tissue-and differentiation-specific profiles that make them useful as research biomarkers (1). Research studies have shown that mutations in keratin genes are associated with skin disorders, liver and pancreatic diseases, and inflammatory intestinal diseases (3-6).

1. Moll, R. et al. (1982) Cell 31, 11-24.

2. Chang, L. and Goldman, R.D. (2004) Nat Rev Mol Cell Biol 5, 601-13.

Keratin 7 and keratin 19 are present in hepatic and pancreatic progenitor/stem cells (7,8).

3. Ramaekers, F.C. and Bosman, F.T. (2004) *J Pathol* 204, 351-4.

4. Lane, E.B. and McLean, W.H. (2004) J Pathol 204, 355-66.

5. Zatloukal, K. et al. (2004) J Pathol 204, 367-76.

6. Owens, D.W. and Lane, E.B. (2004) J Pathol 204, 377-85.

7. lyer, A. et al. (2008) Hum Pathol 39, 1370-7.

8. Meier, K. et al. (2009) Ann Anat 191, 70-82.

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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

GP: Guinea Pig Rab: rabbit All: all species expected

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