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Anti-Cytokeratin 7 Antibody [KO/KD Validated]

Catalog # AP51311

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P08729
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51386

Additional Information

Gene ID	3855
Other Names	SCL; Keratin type II cytoskeletal 7; Cytokeratin-7; CK-7; Keratin-7; K7; Sarcolectin; Type-II keratin Kb7
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Cytokeratin 7. The exact sequence is proprietary.
Dilution	WB~~ 1:4000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

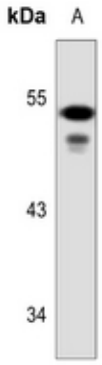
Protein Information

Name	KRT7
Synonyms	SCL
Function	Blocks interferon-dependent interphase and stimulates DNA synthesis in cells. Involved in the translational regulation of the human papillomavirus type 16 E7 mRNA (HPV16 E7).
Cellular Location	Cytoplasm.
Tissue Location	Expressed in cultured epidermal, bronchial and mesothelial cells but absent in colon, ectocervix and liver. Observed throughout the glandular cells in the junction between stomach and esophagus but is absent in the esophagus.

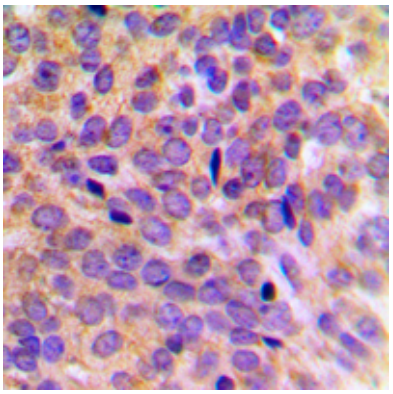
References

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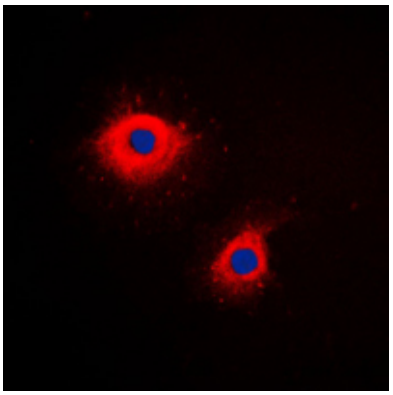
Images



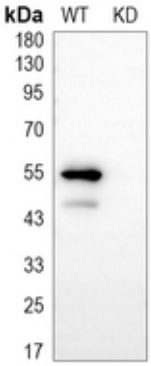
Western blot analysis of Cytokeratin 7 expression in A549 (A) whole cell lysates. (Predicted band size: 51 kD; Observed band size: 54 kD)



Immunohistochemical analysis of Cytokeratin 7 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Cytokeratin 7 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Western blot analysis of Cytokeratin 7 expression in wild type (WT) and knockdown (KD) HeLa cell lysates.

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