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# Anti-Cytokeratin 8 (Phospho-S432) Antibody

Catalog # AP60582

## Product Information

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| **Application** | WB, IHC, IF/IC |
| **Primary Accession** | P05787 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 53704 |

## Additional Information

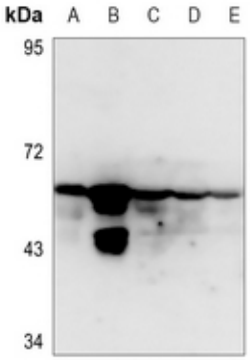
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| **Gene ID** | 3856 |
| **Other Names** | CYK8; Keratin, type II cytoskeletal 8; Cytokeratin-8; CK-8; Keratin-8; K8; Type-II keratin Kb8 |
| **Target/Specificity** | KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S432 of human Cytokeratin 8 protein. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) 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

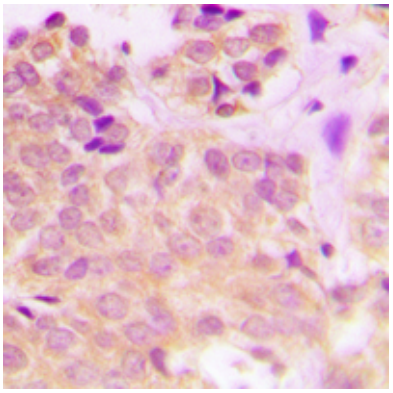
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| **Name** | KRT8 ( HGNC:6446) |
| **Synonyms** | CYK8 |
| **Function** | Structural component of intermediate filaments in simple epithelial cells. Together with its obligate type I partner KRT18, contributes to the formation of the keratin intermediate filament network that provides mechanical stability and resilience to epithelial cells (PubMed:26823019). Also involved in maintaining epithelial integrity and protecting cells from non-mechanical stress, such as apoptosis (By similarity). Also required for ARHGEF40-mediated actin stress fiber formation and tensional force-induced stress fiber formation and reinforcement (PubMed:26823019). In striated muscle, together with KRT19, may contribute to linking the contractile apparatus to dystrophin at the costameres (PubMed:16000376). |

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| **Cellular Location** | Cytoplasm. Nucleus, nucleoplasm {ECO:0000250\|UniProtKB:Q10758}. Nucleus matrix {ECO:0000250\|UniProtKB:Q10758}. Cytoplasm, cytoskeleton |
| **Tissue Location** | Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma membrane in structures that contain dystrophin and spectrin. Expressed in gingival mucosa and hard palate of the oral cavity. |

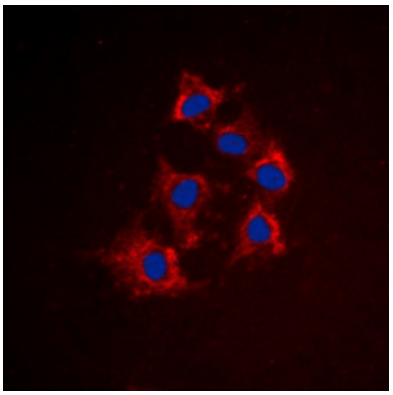
## Images




Western blot analysis of Cytokeratin 8 (Phospho-S432) expression in Hela (A), A549 (B), mouse lung (C), mouse liver (D), rat lung (E) whole cell lysates. (Predicted band size: 53 kD; Observed band size: 55 kD)

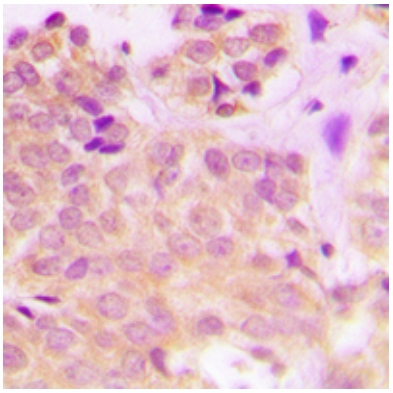


Immunohistochemical analysis of Cytokeratin 8 (Phospho-S432) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room 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 8 (Phospho-S432) 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 hidified 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).

Immunohistochemical analysis of Cytokeratin 8 (pS432) 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.



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