

Cytokeratin 8 (Phospho Ser432) Rabbit pAb

CatalogNo: YP0918 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 53kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:40000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Keratin 8 around the phosphorylation site of Ser432. AA range:401-450

Specificity

Phospho-Cytokeratin 8 (S432) Polyclonal Antibody detects endogenous levels of Cytokeratin 8 protein only when phosphorylated at S432. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):LTSPG

Target Information

Gene name KRT8 CYK8

Protein Name CARD2;CK 8;CK-8;CK8;CYK8;CYKER;Cytokeratin endo A;Cytokeratin-8;DreK8;EndoA;K2C8;K2C8_HUMAN;K8;Keratin 8;Keratin type II cytoskeletal 8;Keratin, type II cytoskeletal 8;Keratin-8;KO;Krt 2.8;KRT8;MGC118110;MGC174782;MGC53564;MGC85764;sb:cb186;Type-II keratin Kb8

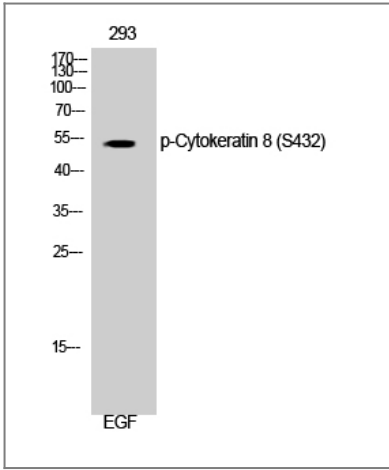
Organism	Gene ID	UniProt ID
Human	3856 ;	P05787 ;
Mouse	16691 ;	P11679 ;
Rat	25626 ;	Q10758 ;

Cellular Localization Cytoplasm . Nucleus , nucleoplasm . Nucleus matrix .

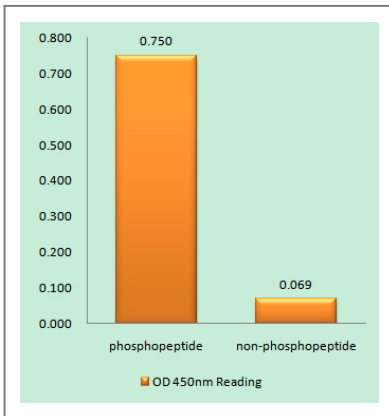
Tissue specificity Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma membrane in structures that contain dystrophin and spectrin. Expressed in gingival mucosa and hard palate of the oral cavity.

Function Disease:Defects in KRT8 are a cause of cryptogenic cirrhosis [MIM:215600]. ,Function:Together with KRT19 , helps to link the contractile apparatus to dystrophin at the costameres of striated muscle. ,miscellaneous:There are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa) . ,PTM:O-glycosylated at multiple sites; glycans consist of single N-acetylglucosamine residues. ,PTM:Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Ser-74 phosphorylation plays an important role in keratin filament reorganization. ,similarity:Belongs to the intermediate filament family. ,subunit:Heterotetramer of two type I and two type II keratins. keratin-8 associates with keratin-18. Associates with KRT20. Interacts with HCV core protein and PNN. When associated with KRT19 , interacts with DMD. Interacts with TCHP. ,tissue specificity: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. ,

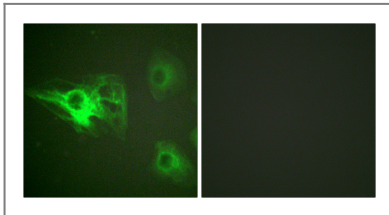
Validation Data



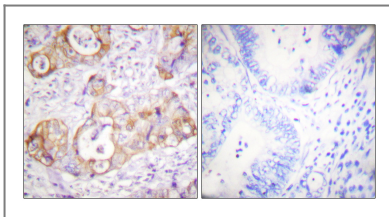
Western Blot analysis of 293 cells using Phospho-Cytokeratin 8 (S432) Polyclonal Antibody diluted at 1:1000



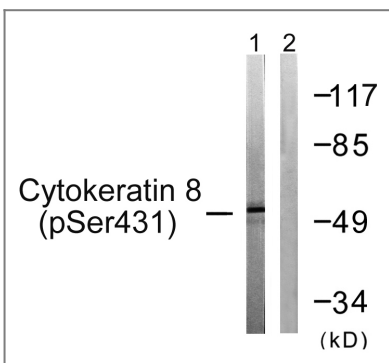
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Keratin 8 (Phospho-Ser432) Antibody



Immunofluorescence analysis of HeLa cells, using Keratin 8 (Phospho-Ser432) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using Keratin 8 (Phospho-Ser432) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with EGF 200ng/ml 30', using Keratin 8 (Phospho-Ser432) Antibody. The lane on the right is blocked with the phospho peptide.

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Cytokeratin 8
(Phospho Ser432)
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