

Cytokeratin 8 (phospho Ser73) Polyclonal Antibody

Catalog No :	YP0082
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	Cytokeratin 8
Gene Name :	KRT8
Protein Name :	Keratin type II cytoskeletal 8
Human Gene Id :	3856
Human Swiss Prot No :	P05787
Mouse Gene Id :	16691
Mouse Swiss Prot No :	P11679
Immunogen :	The antiserum was produced against synthesized peptide derived from human Keratin 8 around the phosphorylation site of Ser73. AA range:41-90
Specificity :	Phospho-Cytokeratin 8 (S73) Polyclonal Antibody detects endogenous levels of Cytokeratin 8 protein only when phosphorylated at S73.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 55kD

Background :

keratin 8(KRT8) Homo sapiens This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012],

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 spec

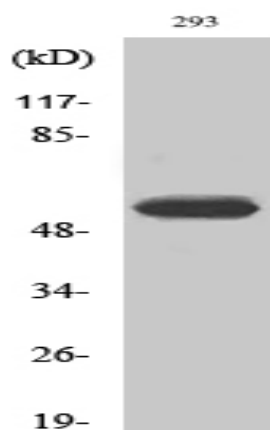
Subcellular Location :

Cytoplasm . Nucleus, nucleoplasm . Nucleus matrix .

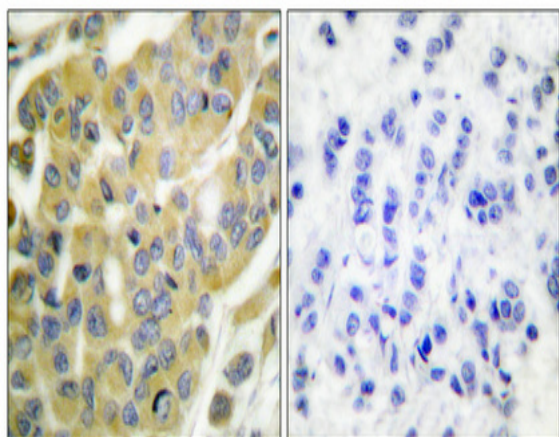
Expression :

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.

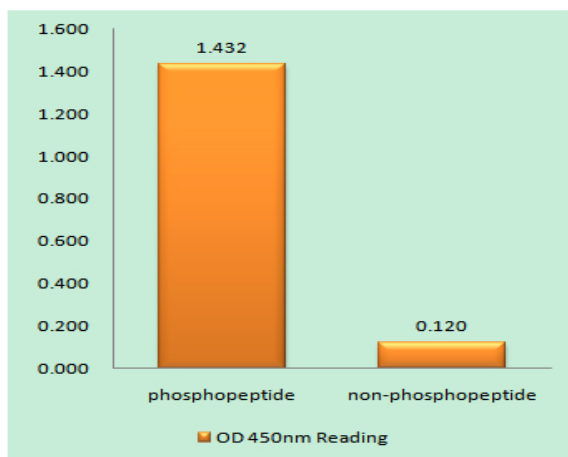
Products Images



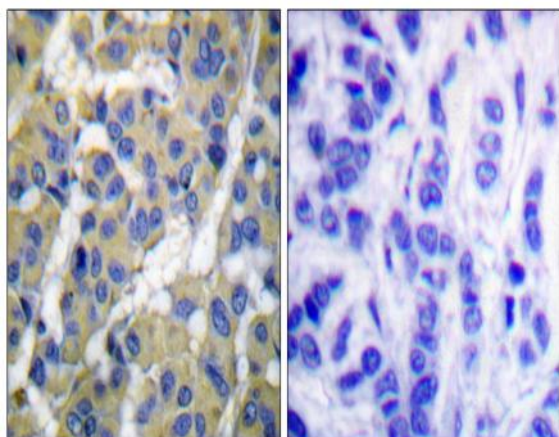
Western Blot analysis of 293 cells using Phospho-Cytokeratin 8 (S73) Polyclonal Antibody diluted at 1:500



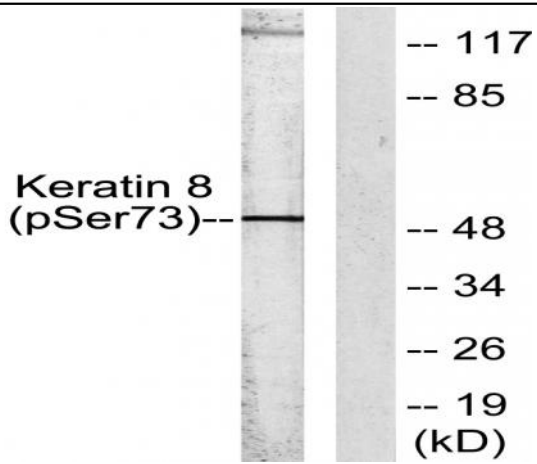
Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Keratin 8 (Phospho-Ser73) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Keratin 8 (Phospho-Ser73) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with Etoposide 25uM 60', using Keratin 8 (Phospho-Ser73) Antibody. The lane on the right is blocked with the phospho peptide.