ARG51782
anti-Cytokeratin 8 phospho (Ser74) antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Cytokeratin 8 phospho (Ser74)
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Cytokeratin 8
Species	Human
Immunogen	Peptide sequence around phosphorylation site of Ser74 (L-L-S(p)-P-L) derived from Human Cytokeratin 8 (CK8).
Conjugation	Un-conjugated
Alternate Names	Keratin, type II cytoskeletal 8; KO; CYK8; CK-8; Type-II keratin Kb8; K2C8; CARD2; Keratin-8; K8; CK8; Cytokeratin-8

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100 - 1:200
WB	1:500 - 1:1000

Application Note

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

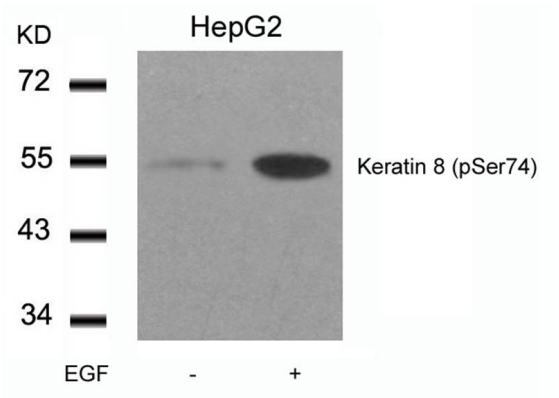
Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Buffer	PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

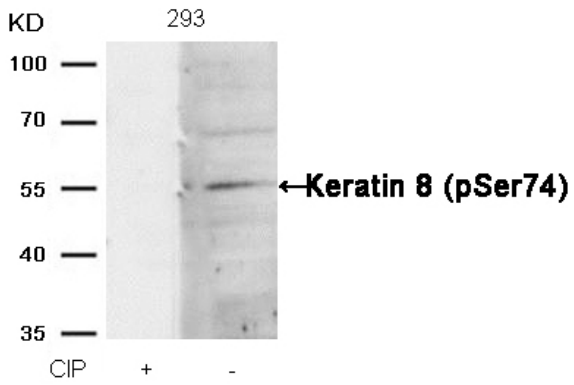
Database links	GeneID: 3856 Human Swiss-port # P05787 Human
Gene Symbol	KRT8
Gene Full Name	keratin 8, type II
Background	Keratin 8 is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in 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.
Function	Together with KRT19, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle. [UniProt]
Research Area	Cancer antibody; Signaling Transduction antibody
Calculated Mw	54 kDa
PTM	Phosphorylation on serine residues is enhanced during EGF stimulation and mitosis. Ser-74 phosphorylation plays an important role in keratin filament reorganization. O-glycosylated. O-GlcNAcylation at multiple sites increases solubility, and decreases stability by inducing proteasomal degradation. O-glycosylated (O-GlcNAcylated), in a cell cycle-dependent manner.

Images



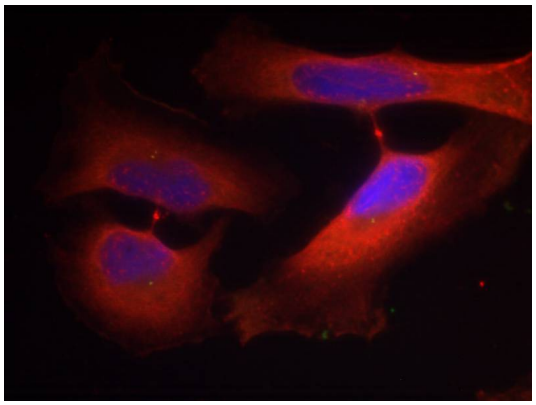
ARG51782 anti-Cytokeratin 8 phospho (Ser74) antibody WB image

Western blot: Extracts from HepG2 cells untreated or treated with EGF and stained with ARG51782 anti-Cytokeratin 8 phospho (Ser74) antibody.



ARG51782 anti-Cytokeratin 8 phospho (Ser74) antibody WB image

Western blot: Extracts from 293 cells, treated with calf intestinal phosphatase (CIP), stained with ARG51782 anti-Cytokeratin 8 phospho (Ser74) antibody.



ARG51782 anti-Cytokeratin 8 phospho (Ser74) antibody ICC/IF image

Immunofluorescence: Methanol-fixed HeLa cells stained with ARG51782 anti-Cytokeratin 8 phospho (Ser74) antibody.