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Product datasheet for CF500020

Cytokeratin 8 (KRT8) Mouse Monoclonal Antibody [Clone ID: OTI1B9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1B9
Applications:	IF, WB
Recommended Dilution:	WB 1:2500~5000, IF 1:100
Reactivity:	Human, Dog, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 91-381 of human CK8 (NP_002264) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	53.5 kDa
Gene Name:	keratin 8
Database Link:	NP_002264 Entrez Gene 16691 MouseEntrez Gene 25626 RatEntrez Gene 486513 DogEntrez Gene 3856 Human P05787

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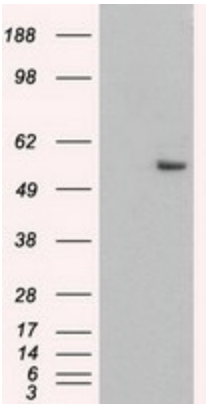
Background: Keratin 8 is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate 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.

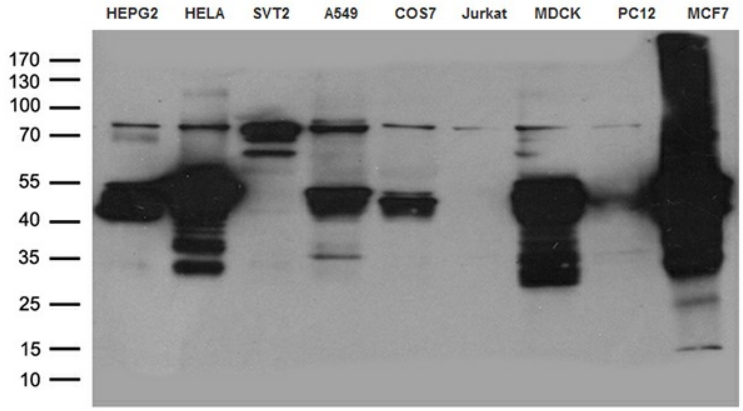
Synonyms: CARD2; CK-8; CK8; CYK8; K2C8; K8; KO

Protein Families: Druggable Genome

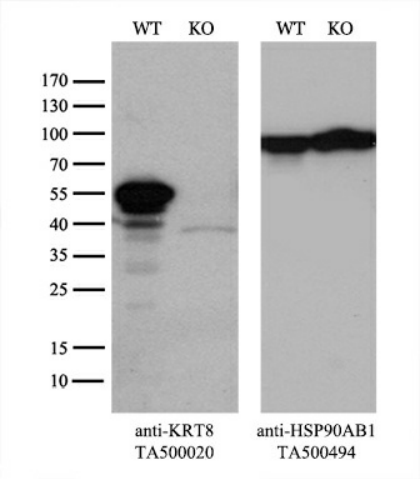
Product images:



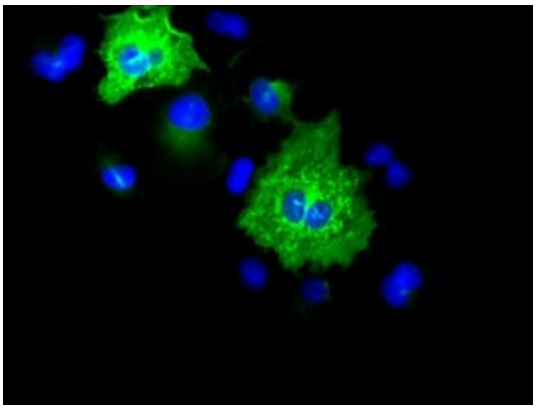
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY KRT8 ([RC209570], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KRT8. Positive lysates [LY419425] (100ug) and [LC419425] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-KRT8 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:500).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and KRT8-Knockout Hela cells (KO, Cat# [LC810123]) were separated by SDS-PAGE and immunoblotted with anti-KRT8 monoclonal antibody [TA500020], (1:2000. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.



Anti-KRT8 mouse monoclonal antibody ([TA500020]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY KRT8 ([RC209570]).