

Product Name: KD-Validated Keratin 18 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01548

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 48.1kDa

Antigen Information

Gene Name	KRT18
Alternative Names	KRT18; Keratin 18; Cell Proliferation-Inducing Gene 46 Protein; Keratin, Type I Cytoskeletal 18; Keratin 18, Type I; CK-18; CYK18; K18; Cytokeratin 18; Cytokeratin-18 Keratin-18
Gene ID	3875.0
SwissProt ID	P05783
Immunogen	A synthesized peptide derived from human Cytokeratin 18

Background

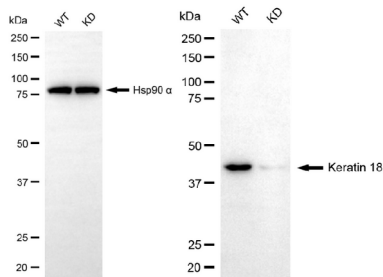
KRT18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding

the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

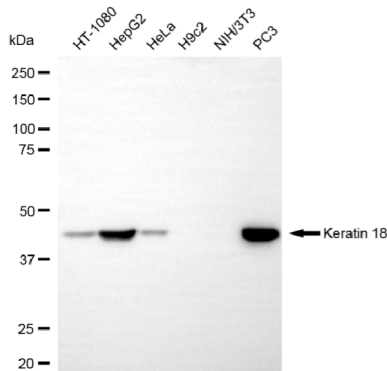
Research Area

Tags & Cell Markers, Signal Transduction

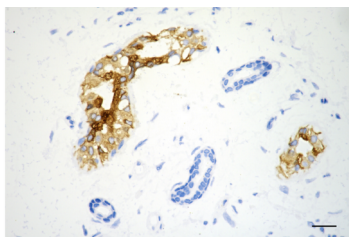
Image Data



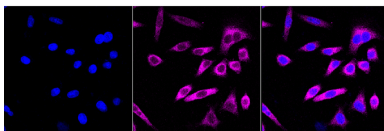
Western blotting analysis using keratin 18 antibody (KVA01548). Keratin 18 expression in wild-type (WT) and keratin 18 (KRT18) knockdown (KD) 293T cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with keratin 18 antibody (KVA01548, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



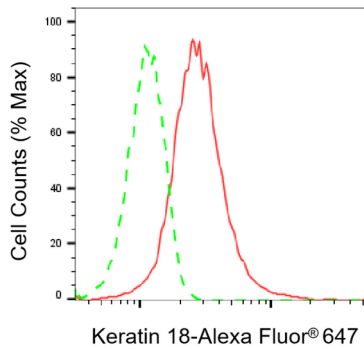
Western blotting analysis using keratin 18 antibody (KVA01548). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with keratin 18 antibody (KVA01548, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using keratin 18 antibody (KVA01548, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HepG2 cells with Keratin 18 antibody (KVA01548, 1:1,000). Nuclei were stained blue with DAPI; Keratin 18 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Keratin 18 expression in HepG2 cells using Keratin 18 antibody (KVA01548, 1:2,000). Green, isotype control; red, Keratin 18.