

Cytokeratin 16 Rabbit mAb

Catalog No: #48928



Package Size: #48928-1 50ul #48928-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

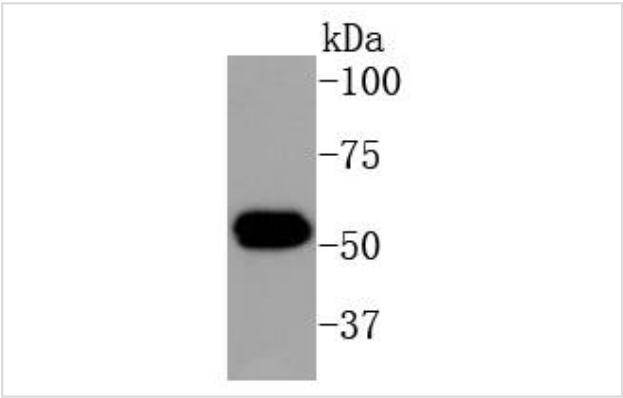
Description

Product Name	Cytokeratin 16 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC52-09
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	CK 16 antibody CK-16 antibody CK16 antibody Cytokeratin-16 antibody Cytokeratin16 antibody FNEPPK antibody Focal non epidermolytic palmoplantar keratoderma antibody K 16 antibody K16 antibody K1C16_HUMAN antibody K1CP antibody Keratin 1 type I antibody Keratin 16 antibody Keratin antibody Keratin type I cytoskeletal 16 antibody Keratin-16 antibody Keratin16 antibody KRT 16 antibody Krt16 antibody KRT16A antibody NEPPK antibody PC1 antibody type I cytoskeletal 16 antibody
Accession No.	Swiss-Prot#:P08779
Calculated MW	51 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

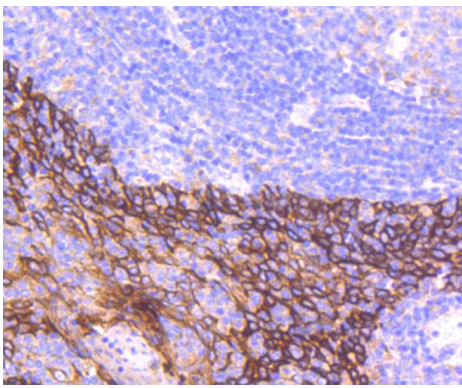
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

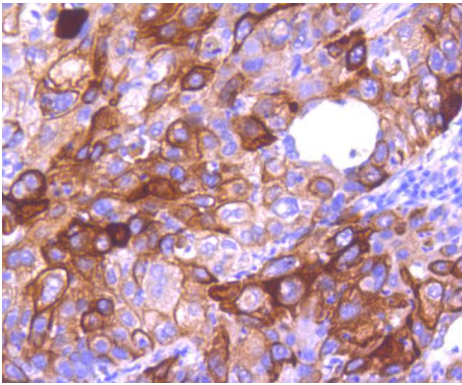
Images



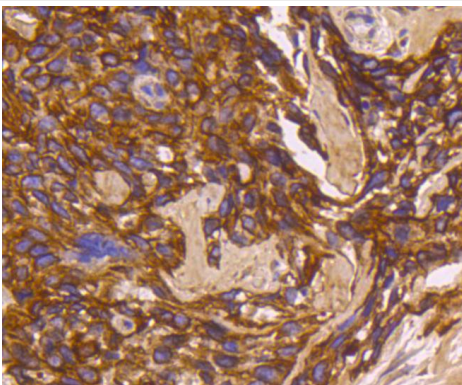
Western blot analysis of Cytokeratin 16 on human skin lysates using anti-Cytokeratin 16 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Cytokeratin 16 antibody. Counter stained with hematoxylin.



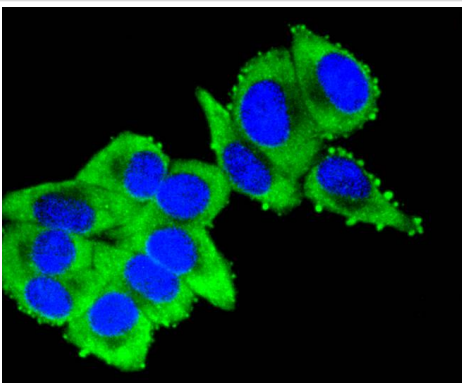
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Cytokeratin 16 antibody. Counter stained with hematoxylin.



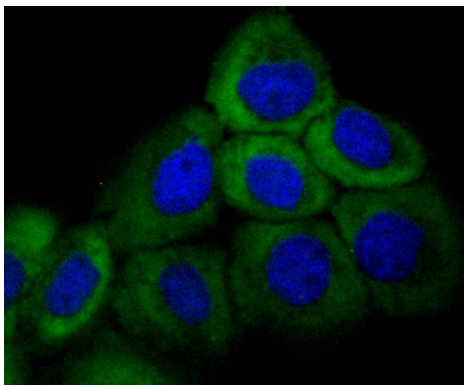
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Cytokeratin 16 antibody. Counter stained with hematoxylin.



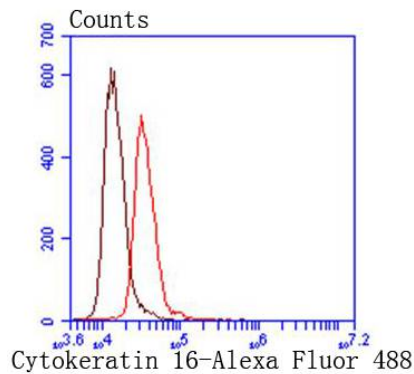
ICC staining Cytokeratin 16 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cytokeratin 16 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cytokeratin 16 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HepG2 cells with Cytokeratin 16 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Cytokeratins comprise a diverse group of intermediate filament proteins that are expressed as pairs in both keratinized and non-keratinized epithelial tissue. The cytokeratin proteins play a critical role in differentiation, as well as tissue specialization and function, to maintain the overall structural integrity of epithelial cells. Cytokeratins are also useful markers in identifying the origin of metastatic tumors. Cytokeratin 16 is expressed in benign stratified squamous epithelium and squamous cell carcinoma of the head and neck, as well as luminal cells of mammary gland and sweat ducts. It is absent in noninvasive breast carcinomas and normal breast tissue. Mutations in the Cytokeratin 16 gene cause various diseases, including pachyonychia congenita type 1 (PC1), nonepidermolytic palmoplantar keratoderma (NEPPK) and unilateral palmoplantar verrucous nevus (UPVN).

References

1. Pal SK et al. The expression profiles of acidic epithelial keratins in ameloblastoma. *Oral Surg Oral Med Oral Pathol Oral Radiol* 115:523-31 (2013).
2. Cheng CH et al. Keratin gene expression profiles after digit amputation in C57BL/6 vs. regenerative MRL mice imply an early regenerative keratinocyte activated-like state. *Physiol Genomics* 45:409-21 (2013).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.