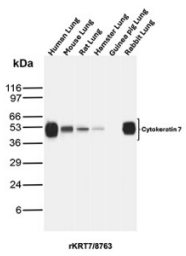
KRT7 Antibody rKRT7/8763 / Cytokeratin 7 Recombinant Mouse MAb [clone rKRT7/8763] (V4281)

Catalog No.	Formulation	Size
V4281-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4281-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4281SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

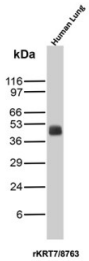
Recombinant | MOUSE MONOCLONAL

Bulk quote request

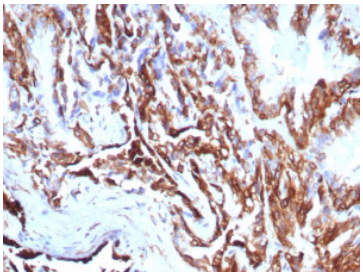
Species Reactivity	Human, Mouse, Rat, Hamster, Rabbit
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2b, kappa
Clone Name	rKRT7/8763
Purity	Protein A/G affinity
UniProt	P08729
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT (Human) Western blot: 2-4ug/ml (Human/Mouse/Rat/Hamster/Rabbit)
Limitations	This KRT7 Antibody rKRT7/8763 is available for research use only.



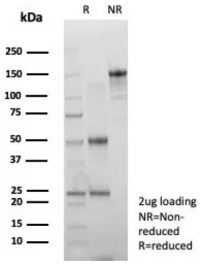
Western blot analysis of lung tissue lysates from human, mouse, rat, hamster and rabbit using KRT7 Antibody rKRT7/8763.



Western blot analysis of human lung tissue lysate using KRT7 Antibody rKRT7/8763.



KRT7 Antibody rKRT7/8763 Immunohistochemistry Analysis. IHC staining of FFPE human prostate carcinoma tissue with recombinant KRT7 antibody (clone rKRT7/8763). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant KRT7 antibody (clone rKRT7/8763) as confirmation of integrity and purity.

Description

KRT7 Antibody rKRT7/8763 targets Keratin 7, also known as Cytokeratin 7 or type II cytoskeletal keratin 7, an intermediate filament protein that plays a central role in maintaining epithelial cell structure. Keratin 7 is encoded by the KRT7 gene and is predominantly expressed in simple and glandular epithelial tissues. Within cells, Keratin 7 localizes to the cytoplasm, where it forms heteropolymeric filaments with type I keratins, contributing to epithelial stability, polarity, and intracellular organization.

Keratin 7 expression is a defining feature of many epithelial cell types, including those lining the respiratory tract, biliary system, pancreatic ducts, breast ducts, female reproductive tract, and urinary epithelium. In contrast, normal colorectal epithelium and stratified squamous epithelium typically lack Keratin 7 expression. This restricted distribution has made KRT7 antibody an important reagent for distinguishing epithelial lineages and assessing tissue origin in research-focused histological studies. CK7-positive staining patterns are frequently observed in epithelial-derived tumors such as lung adenocarcinoma, breast carcinoma, ovarian carcinoma, cholangiocarcinoma, and urothelial carcinoma, while gastrointestinal adenocarcinomas often remain CK7 negative.

Beyond its value as an epithelial marker, Keratin 7 participates in dynamic cytoskeletal remodeling during epithelial differentiation, regeneration, and disease progression. Alterations in KRT7 expression have been linked to changes in epithelial phenotype, glandular differentiation, and cellular stress responses. These expression shifts reflect broader reprogramming of the keratin network that accompanies epithelial transformation and tumor development.

KRT7 antibody is widely used in research applications to evaluate epithelial differentiation patterns, investigate tumor heterogeneity, and characterize epithelial cell populations in complex tissues. Its consistent cytoplasmic localization and lineage-specific expression profile support its utility in studies of epithelial biology, cancer research, and tissue organization.

For an alternative antibody targeting the same protein, see our Cytokeratin 7 Antibody OV-TL12/30 (V2654), a mouse

monoclonal antibody validated for WB, IHC, IF, and flow cytometry.

Application Notes

Optimal dilution of the KRT7 Antibody rKRT7/8763 should be determined by the researcher.

Immunogen

Recombinant full-length human KRT7 protein was used as the immunogen for the recombinant KRT7 antibody.

Storage

Aliquot the recombinant KRT7 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Keratin 7 antibody, CK7 antibody, CK-7 antibody, KRT7 antibody, Cytokeratin-7 antibody, Keratin Type II Cytoskeletal 7 antibody, Type II Cytokeratin 7 antibody, Cytokeratin 7/CK7 antibody, K7 antibody

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