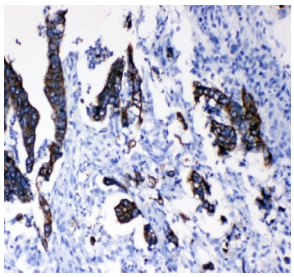
Cytokeratin 8 Antibody (R30341)

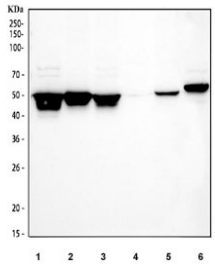
Catalog No.	Formulation	Size
R30341	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

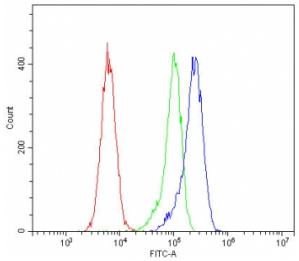
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P05787
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Cytokeratin 8 antibody is available for research use only.



Cytokeratin 8 Antibody Intestinal Cancer IHC. Immunohistochemical staining of FFPE human intestinal cancer tissue using Cytokeratin 8 Antibody demonstrates strong membranous and cytoplasmic HRP-DAB brown staining within malignant epithelial cells, while surrounding stromal elements remain largely negative. The staining pattern is consistent with expression of Cytokeratin 8 (KRT8), a type II intermediate filament protein widely expressed in simple epithelial tissues and many epithelial-derived carcinomas. Cytokeratin 8 immunoreactivity highlights tumor-associated epithelial structures and supports identification of epithelial differentiation within intestinal cancer specimens. HIER: boil tissue sections in pH 8 EDTA for 20 minutes and allow to cool before testing.



Western blot testing of 1) human MCF-7, 2) human Caco-2, 3) human HepG2, 4) human Jurkat, 5) rat RH35 and 6) mouse NIH 3T3 cell lysate with Cytokeratin 8 antibody. Predicted molecular weight ~54 kDa.



Cytokeratin 8 Antibody Caco-2 FACS. Flow cytometry testing of fixed and permeabilized human Caco-2 cells with Cytokeratin 8 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Cytokeratin 8 antibody.

Description

Cytokeratin 8 Antibody specifically detects Cytokeratin 8 (CK8), also known as Keratin 8 (K8), a type II keratin. Among the various intermediate filament (IF) proteins, cytokeratin 8 (CK8) is especially remarkable as it is produced early in embryogenesis, is the only type-II CK occurring in many simple epithelial cells, and can also be synthesized in certain non-epithelial cells. Cytokeratin 8 mRNA was abundant in fetal small intestine, placenta, pancreas, lung, liver, and kidney. Levels of cytokeratin 8 mRNA in placenta increased slightly during pregnancy. He et al.(2002) presented evidence that K8 is a new cytoplasmic target for JNK in Fas receptor-mediated signaling. The functional significance of this phosphorylation could relate to regulation of JNK signaling and/or regulation of keratin dynamics.

Researchers seeking protein microarray validated detection of Keratin 8 for epithelial differentiation, cytoskeletal biology, and cancer research applications may also be interested in our Cytokeratin 8 Antibody page.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Cytokeratin 8 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human Cytokeratin 8 (QQQKTARSNMDNMFESYIN) was used as the immunogen for this Cytokeratin 8 antibody.

Storage

After reconstitution, the Cytokeratin 8 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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