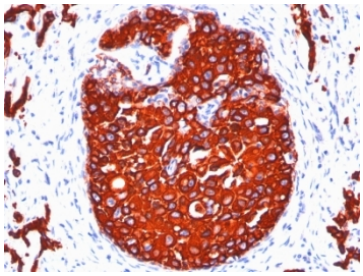
Pan Cytokeratin Antibody [clone KRTL/1077 + KRTH/1076] (V3051)

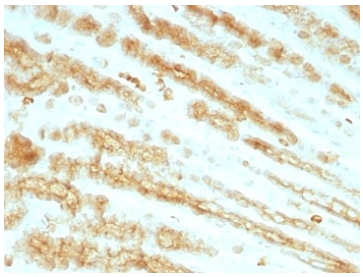
Catalog No.	Formulation	Size
V3051-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3051-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3051SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3051IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

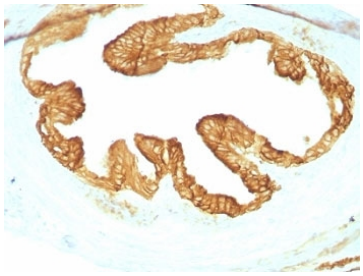
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KRTL/1077 + KRTH/1076
Purity	Protein G affinity chromatography
UniProt	pan
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This pan Cytokeratin antibody is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human breast carcinoma stained with pan Cytokeratin antibody cocktail (KRTL/1077 + KRTH/1076).



IHC: Formalin paraffin rat stomach stained with pan Cytokeratin antibody cocktail (KRTL/1077 + KRTH/1076).



IHC: Formalin-fixed, paraffin-embedded rat oviduct with pan Cytokeratin antibody cocktail (KRTL/1077 + KRTH/1076).

Description

Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI 6.0) subfamilies. This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include Keratins 1, 3, 4, 5, 6, 8, 10, 14, 15, 16, and 19. Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis. KRTL/KRTH is a broad spectrum anti pan-cytokeratin antibody cocktail, which differentiates epithelial tumors from non-epithelial tumors e.g. squamous vs. adenocarcinoma of the lung, liver carcinoma, breast cancer, and esophageal cancer. It has been used to characterize the source of various neoplasms and to study the distribution of cytokeratin containing cells in epithelia during normal development and during the development of epithelial neoplasms. This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

Application Notes

Optimal dilution of the pan Cytokeratin antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human KRT77 and KRT76 protein were used as the immunogen for the pan Cytokeratin antibody.

Storage

Store the pan Cytokeratin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).