Datasheet for ABIN3023997

anti-pan Keratin antibody

3 Images

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Overview

Quantity:	100 µg
Target:	pan Keratin (panKRT)
Reactivity:	Human, Rat, Mouse, Cow, Monkey, Dog, Rabbit, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This pan Keratin antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Human epidermal keratin was used as the immunogen for this pan Cytokeratin antibody.
Clone:	AE1-AE3
Isotype:	IgG1
Purification:	Protein G affinity chromatography

Target Details

Target:	pan Keratin (panKRT)
Alternative Name:	Pan Cytokeratin (panKRT Products)
Background:	Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI <5.7) and basic (pI >6.0) subfamilies. This pan keratin antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include CK1, CK3-6, CK8, CK10,

Target Details

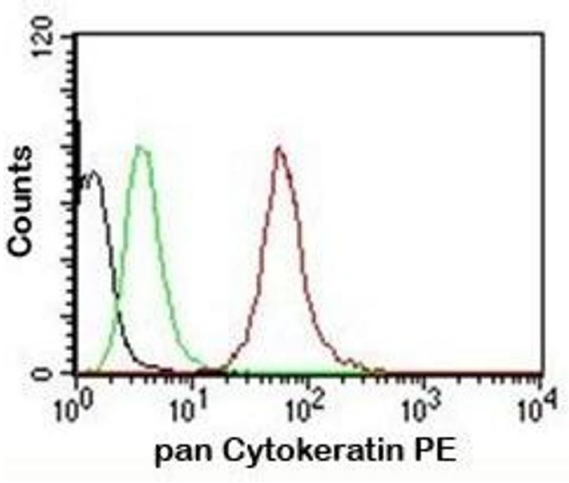
CK14-16, and CK19. Many studies have shown the usefulness of keratin markers in cancer research and tumor diagnosis. The AE1 + AE3 antibody cocktail is a broad spectrum pan cytokeratin antibody cocktail which differentiates epithelial tumors from non-epithelial tumors e.g. squamous vs. adenocarcinoma 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 keratin containing cells in epithelia during normal development and during the development of epithelial neoplasms. It stains cytokeratin present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

Application Details

Application Notes:	The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the pan Cytokeratin antibody AE1 + AE3 to be titered up or down for optimal performance. 1. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. 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.\. FACS: 0.5-1 µg/10e6 cells,IF: 1-2 µg/mL,WB: 0.5-1 µg/mL,for 2 hours at RT,IHC (FFPE): 0.5-1 µg/mL for 30 min at RT (1),Prediluted format : incubate for 30 min at RT (2)
Restrictions:	For Research Use only

Handling

Concentration:	0.2 mg/mL
Buffer:	0.2 mg/mL in 1X PBS with 0.1 mg/mL BSA (US sourced) and 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store the pan Cytokeratin antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

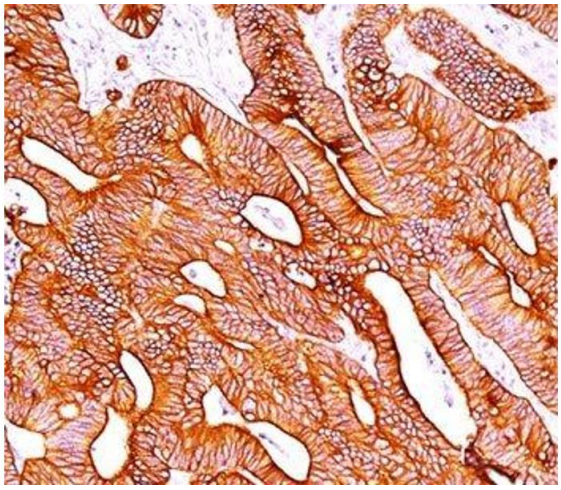


Flow Cytometry

Image 1. FACS testing of MCF-7 cells: Black=cells alone; Green=isotype control; Red= pan Cytokeratin antibody PE conjugate

Immunohistochemistry

Image 2. IHC staining of colon carcinoma with pan Cytokeratin antibody cocktail AE1 + AE3.



Immunohistochemistry

Image 3. IHC staining of colon carcinoma with pan Cytokeratin antibody cocktail AE1 + AE3.

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