

Datasheet for ABIN2967160
anti-Keratin Acidic (AE1) antibody

2 Images

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Overview

Quantity:	0.1 mg
Target:	Keratin Acidic (AE1)
Reactivity:	Human, Rat, Chicken, Mouse, Rabbit, Dog, Cat, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Human epidermal keratins
Clone:	AE1
Isotype:	IgG1
Specificity:	Mouse monoclonal antibody AE1 recognizes acidic type cytokeratins (intracellular antigens), namely K10, 14, 15, 16, 19 (40-56 kDa). This antibody stains well the basal layer of epidermis and most epithelia.
Cross-Reactivity (Details):	Human, Non-Human Primates, Mouse, Rat, Canine (Dog), Feline (Cat), Rabbit, Chicken
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

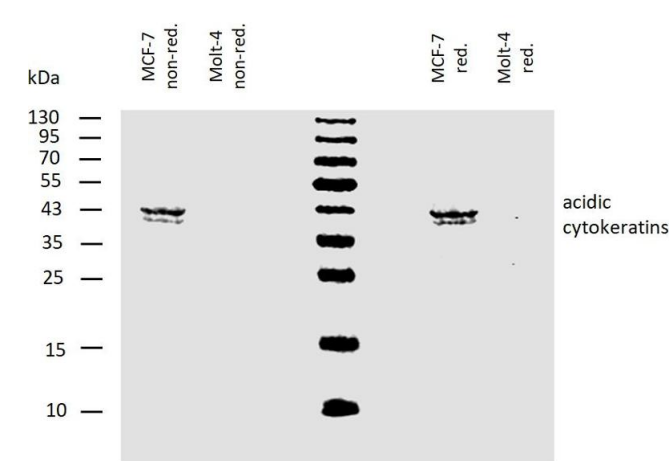
Target:	Keratin Acidic (AE1)
Alternative Name:	Acidic Cytokeratins (AE1 Products)
Background:	Cytokeratins are a subfamily of intermediate filaments and are characterized by remarkable biochemical diversity. CThey are represented in epithelial tissues by at least 20 different polypeptides, molecular weight between 40 kDa and 68 kDa. The individual cytokeratin polypeptides are designated 1 to 20 and divided into the type I (acidic cytokeratins 9-20) and type II (basic to neutral cytokeratins 1-8) families.,Type I cytokeratins

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL. Intracellular staining. Western blotting: Recommended dilution: 1-2 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM 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
Storage Comment:	Store at 2-8°C. Do not freeze.



Western Blotting

Image 1. Western blotting analysis of human acidic cytokeratins using mouse monoclonal antibody AE1 on lysates of MCF-7 cell line and Molt-4 cell line (cytokeratin non-expressing cell line, negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of mouse anti-acidic cytokeratins monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. Specific bands were detected for acidic cytokeratins at approximately 40-43 kDa.

Flow Cytometry

Image 2. Separation of CaCo-2 cells stained using anti-Acidic Cytokeratins (AE1) purified antibody (concentration in sample 3 µg/mL, GAM APC, red-filled) from CaCo-2 unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (intracellular staining).

