

Datasheet for ABIN3024694
anti-Keratin Acidic (AE1) antibody

2 Images

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Overview

Quantity:	100 µg
Target:	Keratin Acidic (AE1)
Reactivity:	Human, Rat, Rabbit, Chicken, Mouse, Monkey, Cow, Dog, Turtle
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Immunofluorescence (IF), Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Solubilized keratin extract from human stratum corneum
Clone:	AE1
Isotype:	IgG1
Purification:	Protein G purified

Target Details

Target:	Keratin Acidic (AE1)
Alternative Name:	Acidic Cytokeratin (AE1 Products)
Background:	Cytokeratins, also called keratins or simply CKs, are a family of fibrous structural proteins and a major structural component in the outer layer of human skin, as well as hair and nails. There are 20 human epithelial keratins which can be divided into two subfamilies: acidic and basic

Target Details

(more recent human genome sequencing has identified an additional 20 members). The formation of cytokeratin intermediate filaments requires the pairing of at least one acidic and one basic subfamily member. Members of the same keratin subfamily share extended sequence homology while members of different subfamilies show only limited sequence homology.

This antibody is specific for the 56.5 kDa (CK10), 50 kDa (CK14), 50 kDa (CK15), 48 kDa (CK16), and 40 kDa (CK19) keratins of the acidic (Type I or LMW) subfamily. Many studies have shown the usefulness of CKs as markers in cancer research and tumor diagnosis, as epithelial tumors generally maintain the same CK expression patterns as their counterpart normal tissue. Clone AE1 is commonly used with clone AE3 as a pan cytokeratin antibody cocktail (< a href=../pan-cytokeratin-antibody-cocktail-ae1-ae3-v2330>Cat No V2330).

Gene ID:	3858
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Application Details

Application Notes:	<p>The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Acidic Cytokeratin antibody AE1 to be titrated up or down for optimal performance.</p> <p>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.</p> <p>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/million cells,IF: 1-2 µg/mL,WB: 0.5-1 µg/mL,IHC (FFPE): 0.5-1 µg/mL for 30 min at RT (1),Prediluted format : incubate for 30 min at RT (2)</p>
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Restrictions:	For Research Use only
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Handling

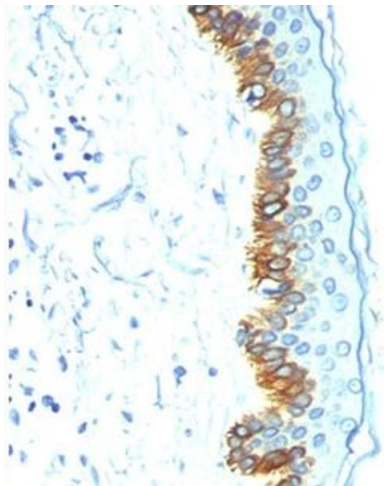
Concentration:	1 mg/mL
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Buffer:	1 mg/mL in 1X PBS, BSA free, sodium azide free
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Preservative:	Azide free
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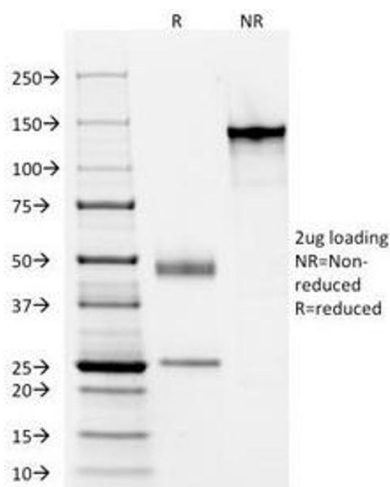
Storage:	4 °C,-20 °C
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Storage Comment:	Store the Acidic Cytokeratin antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).
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Immunohistochemistry

Image 1. IHC staining of human skin with Acidic Cytokeratin antibody AE1.



SDS-PAGE

Image 2. SDS-PAGE Analysis of Purified, BSA-Free Acidic Cytokeratin Antibody (clone AE1). Confirmation of Integrity and Purity of the Antibody.