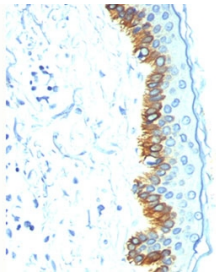
Acidic Cytokeratin Antibody [clone AE1] (V2328)

Catalog No.	Formulation	Size
V2328-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2328-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2328SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2328IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

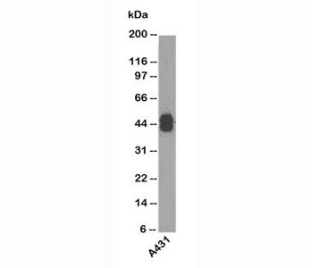
Citations (11)

Bulk quote request

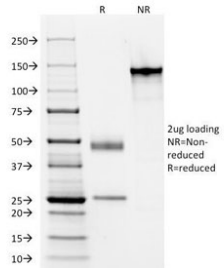
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	AE1
Purity	Protein G purified
Buffer	1X PBS, pH 7.4
Gene ID	3858
Localization	Cytoplasmic
Applications	Flow Cytometry : 0.5-1ug/10^6 cells Immunofluorescence : 1-2ug/ml Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This **Acidic Cytokeratin antibody** is available for research use only.



IHC staining of human skin with Acidic Cytokeratin antibody AE1.



Western blot testing using Acidic Cytokeratin antibody AE1.



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

Description

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 subfamiles: acidic and basic (more recent human genone 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 56.5kDa (CK10), 50kDa (CK14), 50kDa (CK15), 48kDa (CK16), and 40kDa (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 (Cat No V2330).

Application Notes

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 titered up or down for optimal performance.

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 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.

Immunogen

Solubilized keratin extract from human stratum corneum

Storage

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

Alternate Names

KRT, Keratin, Cytokeratin antibody, Acidic cytokeratin antibody

References (2)