abcam

Product datasheet

Anti-pan Cytokeratin antibody [AE1/AE3] ab27988

★★★★★ 7 Abreviews 73 References 2 Images

Overview

Product name	Anti-pan Cytokeratin antibody [AE1/AE3]
Description	Mouse monoclonal [AE1/AE3] to pan Cytokeratin
Host species	Mouse
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Full length protein corresponding to Human pan Cytokeratin. Epidermal keratins.
Positive control	Human skin, oesophagus.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: 1% BSA
Purity	IgG fraction
Clonality	Monoclonal
Clone number	AE1/AE3
Isotype	IgG1

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab27988 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (7)	1/10 - 1/40. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. This product requires protein digestion pretreatment (e.g. trypsin or pronase), or antigen retrieval using heat treatment prior to staining of paraffin sections.

Target

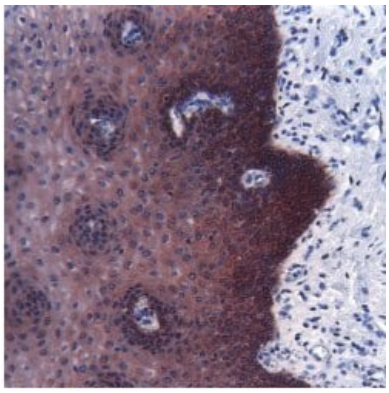
Relevance

Cytokeratins, a group comprising at least 29 different proteins, are characteristic of epithelial and trichocytic cells. Cytokeratins 1, 4, 5, 6, and 8 are members of the type II neutral to basic subfamily. Monoclonal anti cytokeratins are specific markers of epithelial cell differentiation and have been widely used as tools in tumor identification and classification. Monoclonal Anti Pan Cytokeratin is a broadly reactive reagent, which recognizes epitopes present in most human epithelial tissues. It facilitates typing of normal, metaplastic and neoplastic cells. Synergy between the various components results in staining amplification. This enables identification of cells, which would otherwise be stained only marginally. The mixture may aid in the discrimination of carcinomas and nonepithelial tumors such as sarcomas, lymphomas and neural tumors. It is also useful in detecting micrometastases in lymph nodes, bone marrow and other tissues and for determining the origin of poorly differentiated tumors. There are two types of cytokeratins the acidic type I cytokeratins and the basic or neutral type II cytokeratins. Cytokeratins are usually found in pairs comprising a type I cytokeratin and a type II cytokeratin. Usually the type II cytokeratins are 8kD larger than their type I counterparts.

Cellular localization

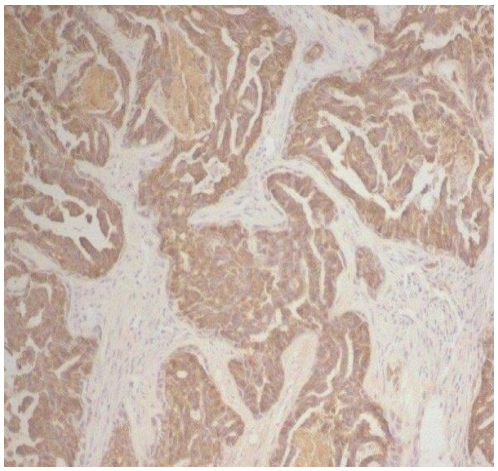
Cytoplasmic

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cytokeratin antibody [AE1/AE3] (ab27988)

Ab27988 at 1/10 dilution staining formalin fixed paraffin embedded human oesophagus by Immunohistochemisty.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cytokeratin antibody [AE1/AE3] (ab27988)

This image is courtesy of an anonymous Abreview

ab27988 staining Cytokeratin in Mouse tissue sections (Human tumor xenograft (Breast carcinoma)) by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with MOM kit from Vector Laboratories for 1 hour at 15°C; antigen retrieval was by enzymatic in proteinase K. Samples were incubated with primary antibody (1/20) for 30 minutes at 15°C. A Biotin-conjugated Goat anti-mouse polyclonal (1/10) was used as the secondary antibody.

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