### Overview

**Product name**: Anti-pan Cytokeratin antibody [AE1/AE3] ab27988

**Description**: Mouse monoclonal [AE1/AE3] to pan Cytokeratin

**Host species**: Mouse

**Specificity**: Ab27988 recognises Pan cytokeratin.

**Tested applications**: Suitable for: IHC-P, IHC-Fr

**Species reactivity**: Reacts with: Mouse, Human, Pig, Macaque monkey

**Immunogen**: Full length protein: Human epidermal keratins.

**Positive control**: Human skin, oesophagus.

### 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

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.

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## 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 (mixture) 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

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