Antipan Cytokeratin antibody [PCK-26] ab6401

Overview

Product name
Antipan Cytokeratin antibody [PCK-26]

Description
Mouse monoclonal [PCK-26] to pan Cytokeratin

Host species
Mouse

Tested applications
Suitable for: WB, IHC-FoFr, IHC-P, IHC-Fr, Dot blot, Flow Cyt, ICC/IF

Species reactivity
Reacts with: Mouse, Sheep, Human, Pig

Predicted to work with: Rat, Rabbit, Goat, Chicken, Cow, a wide range of other species

Immunogen
Full length native protein (purified) corresponding to Human pan Cytokeratin.

General notes
We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

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 or -80°C. Avoid freeze / thaw cycle.

Storage buffer
pH: 7.4
Preservative: 0.097% Sodium azide
Constituent: PBS

Purity
Ascites

Purification notes
Purified from ascites.

Clonality
Monoclonal

Clone number
PCK-26

Myeloma
unknown

Isotype
IgG1

Light chain type
unknown

Applications
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

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
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cytokeratin antibody [PCK-26] (ab6401)

This image is courtesy of an Abreview submitted by Dr Asha Seth

ab6401 staining pan Cytokeratin in Mouse liver tumor tissue sections by IHC-P (Paraformaldehyde fixed paraffin embedded sections). Tissue was fixed with paraformaldehyde and blocked with maleate buffer blocking solution for 30 minutes and 22°C. Antigen retrieval was by heat mediation in citrate buffer. Samples were incubated with primary antibody (1/500) in maleate buffer blocking solution for 16 hours at 22°C. An undiluted biotin-conjugated Donkey polyclonal to mouse IgG was used as secondary antibody.

Lane 1: Anti-pan Cytokeratin antibody [PCK-26] (ab6401) at 2.5 µg/ml
Lane 2: Anti-pan Cytokeratin antibody [PCK-26] (ab6401) at 5 µg/ml
Lane 3: Anti-pan Cytokeratin antibody [PCK-26] (ab6401) at 10 µg/ml
All lanes: HeLa cell lysate

Secondary
All lanes: Peroxidase-conjugated goat anti-mouse IgG
**Immunocytochemistry/ Immunofluorescence - Anti-pan Cytokeratin antibody [PCK-26] (ab6401)**

This image is courtesy of an anonymous Abreview.

Cells were fixed with acetone/methanol (1:1) and blocked with 1% BSA for 1 hour at room temperature. Samples were incubated with primary antibody (1/300 in PBS) for 2 hours. An Alexa Fluor®488-conjugated DGoat anti-mouse IgG polyclonal (1/1000) was used as the secondary antibody. Nuclei were counterstained with DAPI.

**Western blot - Anti-pan Cytokeratin antibody [PCK-26] (ab6401)**

This image is courtesy of an Abreview submitted by Pawel Mazur.

**All lanes:** pan Cytokeratin antibody (ab6401) at 1/1000 dilution + whole cell lysate of Primary mouse pancreatic cancer cell lines (35 µg)

**Secondary:** An HRP-conjugated Sheep anti-mouse IgG polyclonal (1/5000) developed using the ECL technique

Performed under non-reducing conditions.

**Blocking Step:** 10% Milk for 1 hour at room temperature
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cytokeratin antibody [PCK-26] (ab6401)

This image is courtesy of an anonymous Abreview.

ab6401 staining pan Cytokeratin in mouse pancreatic ductal adenocarcinoma (left-hand panel) and mouse pancreatic neoplasia (right-hand panel) sections by immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue samples were fixed with paraformaldehyde and blocked with 10% serum for 1 hour at room temperature; heat mediated antigen retrieval was performed. The sample was incubated with primary antibody (1/250) at 4°C for 8 hours. A Biotin-conjugated Goat polyclonal (1/1000) was used as the secondary antibody.

Immunohistochemistry (Frozen sections) - Anti-pan Cytokeratin antibody [PCK-26] (ab6401)

This image is courtesy of an anonymous Abreview.

ab6401 staining pan Cytokeratin in Mouse pancreatic neoplasia tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with paraformaldehyde and blocked with 1% BSA for 1 hour at room temperature. Samples were incubated with primary antibody (1/250 in PBS) for 8 hours at 4°C. An Alexa Fluor®488-conjugated goat anti-mouse IgG polyclonal (1/1000) was used as the secondary antibody.

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