

Product datasheet

Anti-CD10 antibody [56C6] ab951

★★★★☆ 5 Abreviews 25 References 2 Images

Overview

Product name	Anti-CD10 antibody [56C6]
Description	Mouse monoclonal [56C6] to CD10
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Cat, Dog, Human Predicted to work with: Mouse
Immunogen	Prokaryotic recombinant fusion protein corresponding to the external of the CD10 glycoprotein
Positive control	IHC-P: MDA-MB-231 human breast cancer cells grown in mouse. Renal cell carcinoma tissue.
General notes	We have mixed customer feedback about the mouse specificity, which is why we no longer guarantee this species. Contact scientific support team for any inquiry. This antibody works well when used in combination with ab972 - Antigen retrieval solution, heat mediated high pH 9.5.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: PBS, Carrier protein, Renoir Red Diluent, pH 7.3
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	56C6
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab951** 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
WB	★★★★★	1/1000. Predicted molecular weight: 85 kDa. PubMed: 26074811
IHC-P	★★★★☆	1/25 - 1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. For an ABC system, incubate for 30-60 minutes at RT. With high pH retrieval solutions, some tissues may require an avidin-biotin block. Overstaining with hematoxylin can mask staining, thus reducing overall contrast and making interpretation difficult. It is therefore recommended that a light hematoxylin stain be applied. Recently, CD10 has been used in a panel for mantle cell lymphoma with cyclin D1(+), CD43 (+), CD5 (+), IgM (+), CD23 (-) and CD10 (-).

Target

Function

Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9. Involved in the degradation of atrial natriuretic factor (ANF). Displays UV-inducible elastase activity toward skin preelastic and elastic fibers.

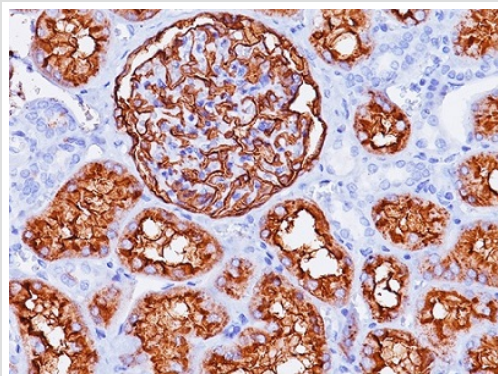
Sequence similarities

Belongs to the peptidase M13 family.

Cellular localization

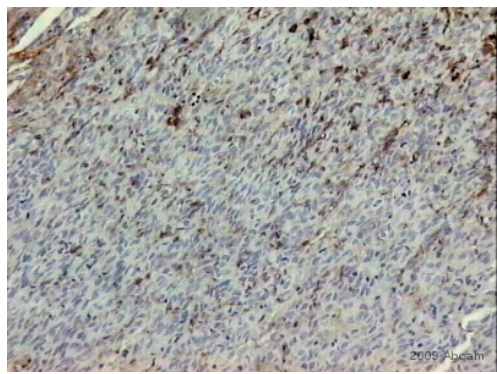
Cell membrane.

Images



Paraffin embedded renal cell carcinoma tissue stained for CD10 with ab951 (1/25 dilution) in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [56C6] (ab951)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD10 antibody [56C6] (ab951)

This image is courtesy of an anonymous Abreview.

ab951 at 1/20 dilution staining CD10 in MDA-MB-231 human breast cancer cells grown in mouse by immunohistochemistry (formalin/PFA-fixed paraffin-embedded sections). Sections were paraformaldehyde fixed prior to blocking in 10% casein for 30 minutes at 22°C and then incubated with ab951 for 17 hours at 4°C. A rabbit polyclonal to mouse Ig, diluted 1/200 was used as the secondary antibody.

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