媛禧生物科技
- yx Biology -

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ACE2
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# YX57105
Clone# BP6153

Predicted Molecular Wt: 92kDa
Species Cross-reactivity: Human
Applications: IHC-P
Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q9BYF1

Background:

Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. Also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. By cleavage of angiotensin II, may be an important regulator of heart function. By cleavage of angiotensin II, may also have a protective role in acute lung injury. Plays an important role in amino acid transport by acting as binding partner of amino acid transporter SL6A19 in intestine, regulating trafficking, expression on the cell surface, and its catalytic activity. Acts as a receptor for SARS coronavirus/SARS-CoV. Acts as a receptor for Human coronavirus NL63/HCoV-NL63.

Subcellular location:

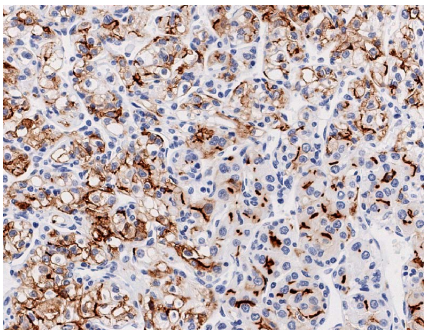
Membrane and Secreted

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide within Human ACE2 aa 750-850. The exact sequence is proprietary.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human renal cell carcinoma labelling ACE2 with BP6153. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

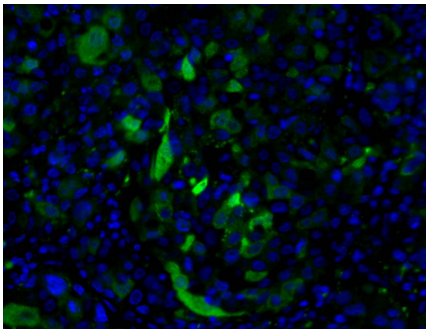
-20°C

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200



Fluorescence multiplex immunohistochemical analysis of human lung cancer tissue (formalin-fixed paraffin-embedded section). The section was pretreated using heat mediated antigen retrieval with Tris/EDTA buffer (pH 9.0). Then incubated with YX57105 (green) at 1/400 dilution for 30mins at room temperature, followed by a further incubation with goat antimouse +rabbit HRP polymer (Yuanxibio, #A10011-30) at room temperature for 10mins. Then the section was labelled with Neon TSA 520 (Yuanxibio, #D110011) for 10mins. DAPI (blue) was used as a nuclear counter stain.

Background References:

1. Donoghue M, et al. Circ. Res. 87:E1-E9(2000).

2. Hofmann H, et al. Natl. Acad. Sci. U.S.A. 102:7988-7993(2005).

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