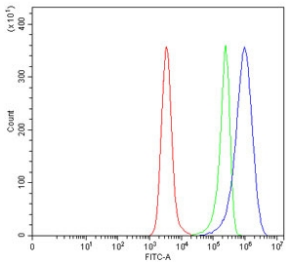
# CD10 Antibody / Neprilysin (R31488)

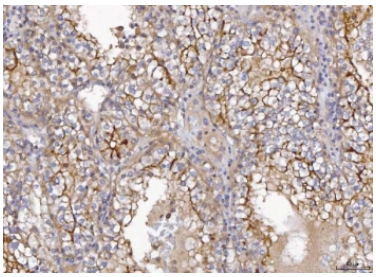
| Catalog No. | Formulation | Size |
|---|---|---|
| R31488 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

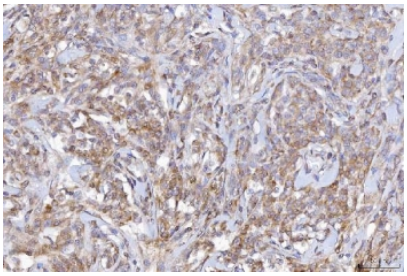
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **Gene ID** | 4311 |
| **Localization** | Cell surface, Cytoplasmic |
| **Applications** | Western blot: 0.5-1ug/ml<br>Immunohistochemistry (FFPE): 2-5ug/ml<br>Flow cytometry: 1-3ug/million cells |
| **Limitations** | This CD10 antibody is available for research use only. |



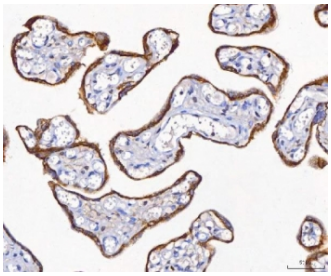

Flow cytometry testing of human Daudi cells with CD10 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CD10 antibody.



IHC staining of FFPE human renal cell carcinoma tissue with CD10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human lymphoma tissue with CD10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human placental tissue with CD10 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of 1) human Daudi, 2) human U-87 MG, 3) human placenta and 4) rat kidney lysate with CD10 antibody. Routinely visualized at ~100 kDa.

## Description

CD10, also known as membrane metallo-endopeptidase, neutral endopeptidase (NEP), Neprilysin, or common acute lymphoblastic leukemia antigen (CALLA), is a zinc-dependent metalloprotease enzyme that degrades a number of small secreted peptides, most notably theamyloid beta peptide whose abnormal misfolding and aggregation in neural tissue has been implicated as a cause of Alzheimers disease. This gene is localized to human chromosome 3 by study of somatic cell hybrids and regionalized the location to 3q21-q27 by in situ hybridization. By cDNA transfection analysis, CD10 is confirmed as a functional neutral endopeptidase of the type that has previously been called enkephalinase. CD10 has also been called atriopeptidase. Atriopeptidase specifically degrades atrial natriuretic factor. A specific enzyme inhibitor was developed and reported that it had effects similar to those of low-dose ANF infusion. These effects include diuresis, natriuresis, vasodilatation, and suppression of the renin-angiotensin-aldosterone system.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CD10 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Human partial recombinant protein (AA 52-750) was used as the immunogen for this CD10 antibody.

## Storage

After reconstitution, the CD10 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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