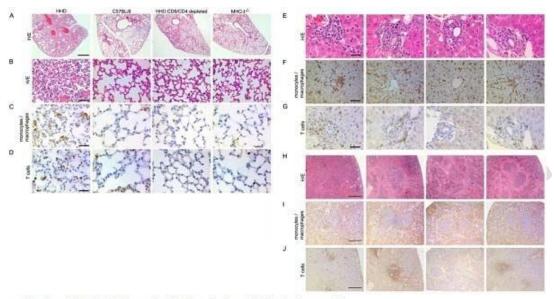


Rat Anti-Human CD3 [Clone CD3-12]

Cat # NB-47-02842-25UG size: 25µg



Citation: Flatz L, Rieger T, Merkler D, Bergthaler A, Regen T, Schedensack M, et al. (2010)

T Cell-Dependence of Lassa Fever Pathogenesis. PLoS Pathog 6(3): e1000836. doi:10.1371/journal.ppat.1000836



Rat anti Human CD3 antibody, clone CD3-12 used for the detection of CD3 expressing cells in murine tissues by immunohistochemistry on formalin fixed, paraffin embedded tissue sections.

Description

Rat anti Human CD3 antibody, clone CD3-12 raised against a peptide representing an invariant cytoplasmic sequence within the CD3 ϵ chain recognizes human CD3 ϵ . CD3 is a multimeric protein complex composed of four distinct polypeptide chains (ϵ , γ , δ , ζ) that assemble and function as three pairs of dimers ($\epsilon\gamma$, $\epsilon\delta$, $\zeta\zeta$). The CD3 complex serves as a T cell co-receptor that associates non-covalently with the T cell receptor (TCR) (Malissen 2008; Guy and Vignali 2009; Smith-Garvin et al. 2009). CD3 is a defining feature of cells belonging to the T cell lineage and can therefore be used as T cell marker.

As Rat anti Human CD3, clone CD3-12 has been specifically raised against an epitope within the epsilon peptide chain, highly conserved among species clone CD3-12 has a very broad species crossreactivity for the CD3 marker. (Jones et al. 1993; Kothlow et al. 2005).

Product Information

Host: Rat

Applications: Flow Cytometry, Immunofluorescence, Immunohistology - Frozen,

Immunohistology - Paraffin, WB

Reactivity: Human



Cross-Reactivity: Bovine, Dog, Horse, Rhesus Monkey, Pig, Chicken, Mouse, Duck, Koala,

Harbour Porpoise, Alpaca, Cynomolgus monkey, Spotted Hyena, Sea Lion, Cat, Amazon Parrot, Raccoon, Great horned owl (Bubo

virginianus), Bullfrog, Xenopus, Rabbit, African green monkey

Expected from Sequence: Mammals, Birds, Amphibia

Clonality: Monoclonal Clone ID: CD3-12

Conjugation: Unconjugated

Isotype: IgG

Formulation: PBS, 0.09% Sodium Azide, carrier free.

Purification: Purified IgG prepared from tissue culture supernatant.

Concentration: 1 mg/mL

Dilution Range: Flow Cytometry¹ 1/50 - 1/100

Immunohistology - Frozen1/100Immunohistology - Paraffin²1/100

¹Membrane permeabilization is required for this application.

²This product requires antigen retrieval using heat treatment prior to staining of paraffin

sections. Tris/EDTA buffer pH 9.0 is recommended for this purpose.

Storage Instruction: This product is shipped at ambient temperature. It is recommended to

aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and

store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody.

Storage in frost-free freezers is not recommended.

Target

Protein Name: CD3E
Uniprot ID: P07766
Immunogen Region: 100aa C-Term

Immunogen: Synthetic peptide sequence derived from cytoplasmic epitope of CD3

(Glu-Arg-Pro-Pro-Pro-Val-Pro-Asn-Pro-Asp-Tyr-Glu-Pro-Cys)

(ERPPPVPNPDYEPC).

References

- 1. Cornet, A. et al. (2001) Enterocolitis induced by autoimmune targeting of enteric glial cells: a possible mechanism in Crohn's disease? Proc Natl Acad Sci U S A. 98: 13306-11.
- 2. Holtappels, R. et al. (1998) Control of murine cytomegalovirus in the lungs: relative but not absolute immunodominance of the immediate-early 1 nonapeptide during the antiviral cytolytic T-lymphocyte response in pulmonary infiltrates. J Virol. 72: 7201-12.
- 3. Hudson, K.J. and Bouton, A.H. (2006) Yersinia pseudotuberculosis adhesins regulate tissue-specific colonization and immune cell localization in a mouse model of systemic infection. Infect Immun. 74: 6487-90.

And serveral others. Please contact info@neo-biotech.com for a complete list.

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