

Rabbit anti-Mouse CD3 epsilon/CD3e Polyclonal Antibody | anti-CD3E antibody

Anti-CD3 epsilon/CD3e Antibody, Rabbit Polyclonal

CATALOG # AAA255228	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunohistochemistry
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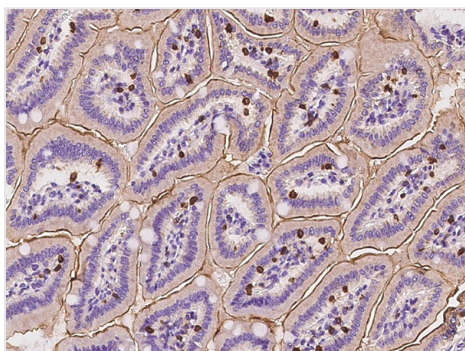
PRODUCT SYNONYMS

CD3 epsilon/CD3e; Polyclonal Antibody; Anti-CD3 epsilon/CD3e Antibody; Rabbit Polyclonal; CD3 epsilon/CD3e Antibody; Rabbit PAb; Antigen Affinity Purified; CD3e molecule; epsilon (CD3-TCR complex); Anti-AI504783 Antibody; Anti-CD3 Antibody; Anti-CD3epsilon Antibody; Anti-T3e Antibody; anti-CD3E antibody

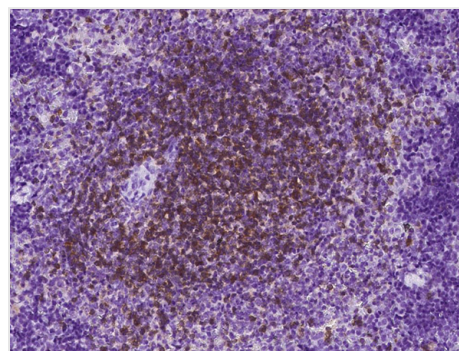
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse CD3 epsilon/CD3e
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-CD3E antibody	IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Mouse CD3 epsilon/CD3e
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Mouse CD3 epsilon/CD3e, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES


IHC (Immunohistochemistry)

Immunochemical staining of mouse CD3 in mouse small intestine with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.


IHC (Immunohistochemistry)

Immunochemical staining of mouse CD3 in mouse spleen with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-CD3E antibody	T-cell surface glycoprotein CD3 epsilon chain, also known as CD3E, is a single-pass type I membrane protein. CD3E contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. The CD3 epsilon subunit of the T cell receptor (TCR) complex contains two defined signaling domains, a proline-rich sequence and an immune tyrosine activation motifs (ITAMs), and this complex undergoes a conformational change upon ligand binding that is thought to be important for the activation of T cells. In the CD3 epsilon mutant mice, all stages of T cell development and activation that are TCR-dependent were impaired, but not eliminated, including activation of mature naive T cells with the MHCII presented superantigen, staphylococcal enterotoxin B, or with a strong TCR cross-linking antibody specific for either TCR-Cbeta or CD3 epsilon. T cell receptor-CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. This complex is critical for T-cell development and function, and represents one of the most complex transmembrane receptors. CD3E plays an essential role in T-cell development, and defects in CD3E gene cause severe immunodeficiency. Homozygous mutations in CD3D and CD3E genes lead to a complete block in T-cell development and thus to an early-onset severe combined immunodeficiency phenotype.
Product Categories/Family for anti-CD3E antibody	ITIM/ITAM Immunoreceptors and Related Molecules ; T Cell Receptor Signaling Pathway
References	Fischer A, et al. (2005) CD3 deficiencies. Curr Opin Allergy Clin Immunol. 5(6): 491-5. Wang Y, et al. (2009) A conserved CXXC motif in CD3epsilon is critical for T cell development and TCR signaling. PLoS Biol. 7(12): e1000253. Martnez-Martn N, et al. (2009) Cooperativity between T cell receptor complexes revealed by conformational mutants of CD3epsilon. Sci Signal. 2(83): ra43. Deford-Watts LM, et al. (2009) The cytoplasmic tail of the T cell receptor CD3 epsilon subunit contains a phospholipid-binding motif that regulates T cell functions. J Immunol. 183(2): 1055-64.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6680886
NCBI GeneID	12501
NCBI Accession #	NP_031674.1
NCBI GenBank Nucleotide #	NM_007648.4
UniProt Accession #	P22646
Molecular Weight	21,393 Da
NCBI Official Full Name	T-cell surface glycoprotein CD3 epsilon chain
NCBI Official Synonym Full Names	CD3 antigen, epsilon polypeptide
NCBI Official Symbol	Cd3e
NCBI Official Synonym Symbols	CD3; T3e; AI504783; CD3epsilon
NCBI Protein Information	T-cell surface glycoprotein CD3 epsilon chain; T-cell surface antigen T3/Leu-4 epsilon chain
UniProt Protein Name	T-cell surface glycoprotein CD3 epsilon chain
UniProt Gene Name	Cd3e
UniProt Entry Name	CD3E_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.