

CD3 epsilon Rabbit mAb
Catalog # AP75222**Specification****CD3 epsilon Rabbit mAb - Product Information**

Application	WB
Primary Accession	P07766
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	23147

CD3 epsilon Rabbit mAb - Additional Information

Gene ID 916

Other Names
CD3E**Dilution**
WB~~1/500-1/1000**Format**
Liquid**CD3 epsilon Rabbit mAb - Protein Information****Name** CD3E**Synonyms** T3E**Function**

Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways (PubMed: [2470098](http://www.uniprot.org/citations/2470098)). In addition of this role of signal transduction in T-cell activation, CD3E plays an essential role in correct T-cell development. Initiates the TCR-CD3 complex assembly by forming the two heterodimers CD3D/CD3E and CD3G/CD3E. Participates also in internalization and cell surface down-regulation of TCR-CD3 complexes via endocytosis sequences present in CD3E cytosolic region (PubMed: [10384095](http://www.uniprot.org/citations/10384095), PubMed: [26507128](http://www.uniprot.org/citations/26507128)). In addition to its role as a TCR coreceptor, it serves as a receptor for ITPRIPL1. Ligand recognition inhibits T-cell activation by promoting interaction with NCK1, which prevents CD3E-ZAP70 interaction and blocks the ERK- NFKB signaling cascade and

calcium influx (PubMed:38614099).

Cellular Location

Cell membrane; Single-pass type I membrane protein

CD3 epsilon Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD3 epsilon Rabbit mAb - Images

