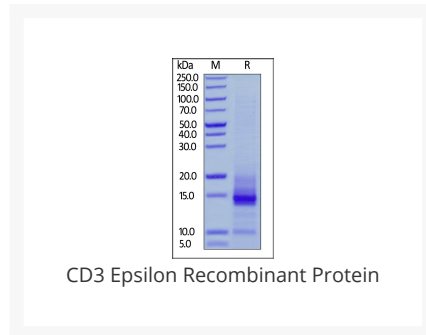




CD3 Epsilon Recombinant Protein

Cat. No.: 96-166




Ψ Specifications

SPECIES:	Cynomolgus monkey
SOURCE SPECIES:	HEK293 cells
SEQUENCE:	Gln 22 - Asp 117
FUSION TAG:	His Tag
TESTED APPLICATIONS:	WB
APPLICATIONS:	This recombinant protein can be used for WB. For research use only.
PREDICTED MOLECULAR WEIGHT:	11.7 kDa

Ψ Properties

PURITY:	>97% as determined by SDS-PAGE.
PHYSICAL STATE:	Lyophilized
BUFFER:	PBS, pH7.4
STORAGE CONDITIONS:	Lyophilized protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-thaw cycles.

OFFICIAL SYMBOL:	CD3E
ALTERNATE NAMES:	T3E, TCRE, CD3E, CD3-epsilon
ACCESSION NO.:	Q95LI5.2
GENE ID:	102133065

 Background and References

BACKGROUND:	<p>CD3e molecule, epsilon is also known as CD3E, is a T-cell surface single-pass type I membrane glycoprotein. 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. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. CD3E plays an essential role in T-cell development, and defects in CD3E gene cause severe immunodeficiency. CD3E gene has also been linked to a susceptibility to type I diabetes in women. CD3E has been shown to interact with TOP2B, CD3EAP and NCK2.</p>
REFERENCES:	<p>1) Gold DP, et al., 1986, Nature 321 (6068): 431-4. 2) Clevers HC, et al., 1988, Proc. Natl. Acad. Sci. U.S.A. 85 (21): 8156-60. 3) de Saint Basile G, et al., 2004, J. Clin. Invest. 114 (10): 1512-7. 4) Wong S, et al., 1991, Clin. Exp. Immunol. 83 (1): 69-73.</p>

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