

## Product datasheet for **AP21165PU-M**

### PAF49 (CD3EAP) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of CD3EAP protein. (region surrounding Glu474)
Formulation:	Phosphate buffered saline (PBS), pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 55 kDa
Gene Name:	CD3e molecule associated protein
Database Link:	<a href="#">Entrez Gene 10849 Human</a> <a href="#">O15446</a>



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**Background:**

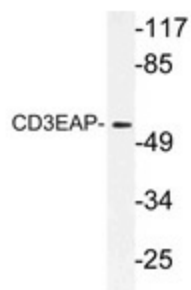
CD3EAP, also known as ASE1, CAST or PAF49, is a 510 amino acid protein that localizes to the nucleus and belongs to the eukaryotic RPA34 RNA polymerase subunit family. Existing as two alternatively spliced isoforms, CD3EAP functions as a component of the Pol I complex, specifically exhibiting DNA-dependent RNA polymerase activity and effectively catalyzing the the conversion of a nucleoside triphosphate into a diphosphate, thereby transcribing DNA into RNA. Isoform 2 of CD3EAP may be a component of the T cell receptor (TCR) complex and is subject to tyrosine phosphorylation in response to TCR stimulation. Both isoforms of CD3EAP are subject to DNA damage-dependent phosphorylation, probably by ATM or ATR.

**Synonyms:**

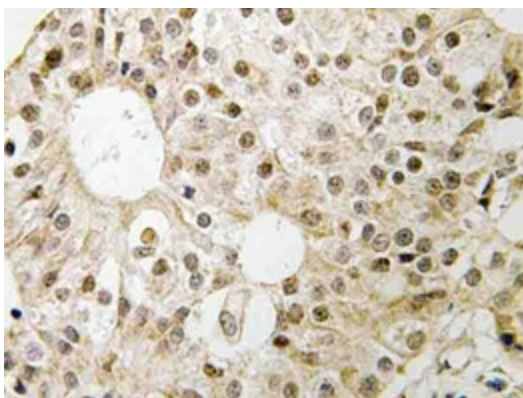
ASE1, CAST, PAF49, A34.5

**Protein Families:**

Transcription Factors

**Product images:**


Western blot (WB) analysis of CD3EAP antibody (Cat.-No.: [AP21165PU-N]) in extracts from A549 cells.



Immunohistochemistry (IHC) analyzes of CD3EAP antibody (Cat.-No.: [AP21165PU-N]) in paraffin-embedded human breast carcinoma tissue.