

## Product datasheet for **TA392888S**

### EEF2 Rabbit Polyclonal Antibody

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | WB   |
| Recommended Dilution:   | WB: 1:500~1:1000 IHC: 1:50~1:200   |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Rabbit   |
| Isotype:                | IgG  |
| Clonality:              | Polyclonal   |
| Immunogen:              | Synthetic peptide, corresponding to amino acids 20-70 of Human eEF2.                                     |
| Specificity:            | p-EEF2 (T56) polyclonal antibody detects endogenous levels of EF-2 protein when phosphorylated at Thr56. |
| Formulation:            | Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2                                   |
| Concentration:          | 1mg/ml   |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.                 |
| Stability:              | 1 year   |
| Predicted Protein Size: | ~ 95 kDa   |
| Gene Name:              | eukaryotic translation elongation factor 2   |
| Database Link:          | <a href="#">Entrez Gene 1938 Human P13639</a>  |



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**Background:**

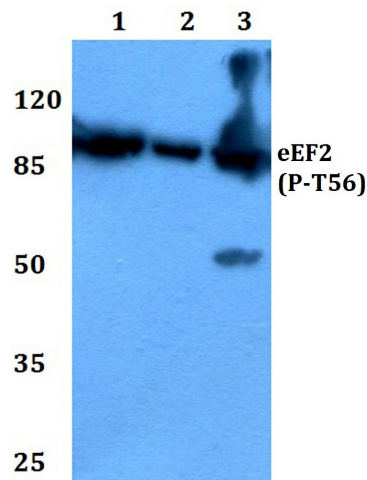
Two elongation factors (EF) EF-Tu and EF-2 participate in the elongation phase during protein biosynthesis on the ribosome and their functional cycles depend on GTP binding and its hydrolysis. EF-Tu (also designated mitochondrial precursor p43) and EF-2 are multidomain GTPases with essential functions in translation, and they both bind to the same site on the ribosome where their low intrinsic GTPase activities are strongly stimulated. EF-Tu plays a central role in the fast and accurate delivery of aminoacyl-tRNAs to the translating ribosome. In addition, EF-Tu protects the aminoester bond against hydrolysis until a correct match between the codon on mRNA and the anticodon on tRNA can be achieved. EF-2 supports the translocation of tRNAs and of mRNAs on the ribosome so that a new codon can be exposed for decoding.

**Synonyms:**

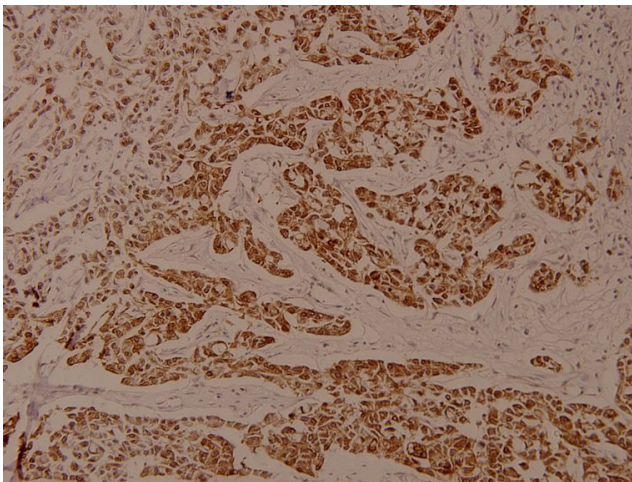
EEF2; EF-2; EF2; Elongation factor 2

**Note:**

For research use only, not for use in diagnostic procedure.

**Product images:**

Western blot (WB) analysis of p-EEF2 (T56) pAb at 1:500 dilution Lane1:K562 whole cell lysate(40ug) Lane2:HEK293T whole cell lysate(10ug) Lane3:The Liver tissue lysate of Rat(40ug) Lane4:The Liver tissue lysate of Mouse(40ug)



Immunohistochemistry (IHC) analyzes of p-EEF2 (T56) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.