

## Product datasheet for **TA384152**

### EIF3B Rabbit Monoclonal Antibody [Clone ID: R09-2A9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	R09-2A9
Applications:	IHC, WB
Recommended Dilution:	WB: 1/1000-1/5000 IHC: 1/20-1/50
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human eIF3B
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
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:	Calculated MW: 93 kDa; Observed MW: 117 kDa
Gene Name:	eukaryotic translation initiation factor 3 subunit B
Database Link:	<a href="#">Entrez Gene 8662 Human P55884</a>



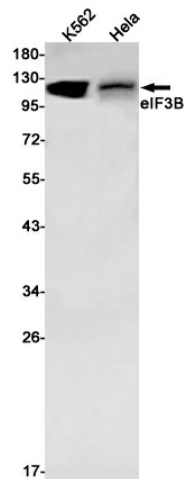
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**Background:**

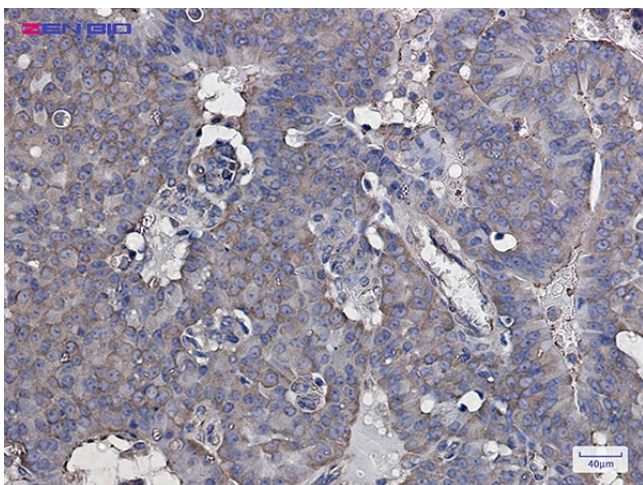
Swiss-Prot Acc.P55884.RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:9388245, PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA<sub>i</sub> and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:9388245, PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773).

**Synonyms:**

eIF-3-eta; EIF3-ETA; EIF3-P110; EIF3-P116; EIF3S9; hPrt1; MGC104664; MGC131875; PRT1

**Product images:**

Western blot detection of eIF3B in K562, HeLa cell lysates using eIF3B Rabbit mAb(1:1000 diluted). Predicted band size: 93kDa. Observed band size: 117kDa.



Immunohistochemistry of eIF3B in paraffin-embedded Human breast cancer tissue using eIF3B Rabbit mAb at dilution 1/20