



# Anti-eIF3E (aa 50-150) polyclonal antibody (DPABH-15702)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Antigen Description** Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. 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 preinitiation 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 posttermination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. Required for nonsense-mediated mRNA decay (NMD); may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway. May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins.

<b>Immunogen</b>	Synthetic peptide conjugated to KLH derived from within residues 50 - 150 of Human eIF3e.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Chicken, Human, Zebrafish
<b>Purification</b>	Immunogen affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-P, ICC/IF, WB, IP
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	Constituents: 1% BSA, PBS, pH 7.4
<b>Preservative</b>	Preservative: 0.02% Sodium Azide
<b>Storage</b>	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

# GENE INFORMATION

<b>Gene Name</b>	<a href="#">EIF3E eukaryotic translation initiation factor 3, subunit E [ Homo sapiens ]</a>
<b>Official Symbol</b>	eIF3e
<b>Synonyms</b>	EIF3E; eukaryotic translation initiation factor 3, subunit E; EIF3S6, eukaryotic translation initiation factor 3, subunit 6 48kDa; INT6; eukaryotic translation initiation factor 3 subunit E; eIF3 p48; eIF3e; eIF-3 p48; mammary tumor-associated protein INT6; viral integration site protein INT-6 homolog; eukaryotic translation initiation factor 3 subunit 6; murine mammary tumor integration site 6 (oncogene homolog); eukaryotic translation initiation factor 3, subunit 6 48kDa; eukaryotic translation initiation factor 3, subunit 6 (48kD); INT6; EIF3S6; EIF3-P48; eIF3-p46;
<b>Entrez Gene ID</b>	<a href="#">3646</a>
<b>mRNA Refseq</b>	<a href="#">NM_001568</a>
<b>Protein Refseq</b>	<a href="#">NP_001559</a>
<b>MIM</b>	<a href="#">602210</a>
<b>UniProt ID</b>	<a href="#">P60228</a>
<b>Chromosome Location</b>	8q22-q23
<b>Pathway</b>	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S; Cap-dependent Translation Initiation; Eukaryotic Translation Initiation; Formation of a pool of free 40S subunits; Formation of the ternary complex, an
<b>Function</b>	protein N-terminus binding; protein binding; translation initiation factor activity; contributes_to translation initiation factor activity;