



# Human EIF3B peptide (DAG-P0477)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	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 <sup>i</sup> 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 post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the eIF-3 subunit B family. Contains 1 RRM (RNA recognition motif) domain. Contains 5 WD repeats.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">EIF3B eukaryotic translation initiation factor 3, subunit B [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	EIF3B
<b>Synonyms</b>	EIF3B; eukaryotic translation initiation factor 3, subunit B; PRT1; EIF3S9; EIF3-ETA; EIF3-P110; EIF3-P116; eukaryotic translation initiation factor 3 subunit B; hPrt1; eIF-3-eta; eIF3 p110; eIF3 p116; prt1 homolog; eukaryotic translation initiation factor 3 subunit 9; eukaryotic translation initiation factor 3, subunit 9 eta, 116kDa; eukaryotic translation initiation factor 3,

subunit 9 (eta, 116kD);

Entrez Gene ID	<a href="#">8662</a>
mRNA Refseq	<a href="#">NM_001037283.1</a>
Protein Refseq	<a href="#">NP_001032360.1</a>
UniProt ID	P55884
Chromosome Location	7p22.3
Pathway	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Eukaryotic Translation Initiation, organism-specific biosystem; Formation of a pool of free 40S subunits, organism-specific biosystem; Formation of the ternary complex, and subsequently, the 43S complex, organism-specific biosystem; GTP hydrolysis and joining of the 60S ribosomal subunit, organism-s
Function	nucleotide binding; protein binding; protein complex scaffold; contributes_to translation initiation factor activity; translation initiation factor activity; contributes_to translation initiation factor activity; translation initiation factor binding;