

DNAxPAb

Hard-to-Find
Antibody

EIF4E DNAxPab

Catalog # H00001977-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human EIF4E DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MATVEPETTPTPNPPTTEEEKTESNQEVANPEHYKHPLQNRWALWFFKNDKSKTWQANLRLISK FDTVEDFWALYNHIQLSSNLMPGCDYSLFKDIEPMWEDEKKNKRGGRWLITLNKQQRSDLDRF WLETLLCLIGESFDDYSDDVCGAVVNVRAKGDKIAWTTECENREAVTHIGRVYKERLGLPPKIVIG YQSHADTATKSGSTTKNRFVV
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — EIF4E

Entrez GeneID [1977](#)

GeneBank Accession# [BC035166.1](#)

Protein Accession# [AAH35166.1](#)

Gene Name EIF4E

Gene Alias CBP, EIF4E1, EIF4EL1, EIF4F, MGC111573

Gene Description eukaryotic translation initiation factor 4E

Omim ID [133440](#)

Gene Ontology [Hyperlink](#)

Gene Summary

All eukaryotic cellular mRNAs are blocked at their 5-prime ends with the 7-methylguanosine cap structure, m7GpppX (where X is any nucleotide). This structure is involved in several cellular processes including enhanced translational efficiency, splicing, mRNA stability, and RNA nuclear export. EIF4E is a eukaryotic translation initiation factor involved in directing ribosomes to the cap structure of mRNAs. It is a 24-kD polypeptide that exists as both a free form and as part of a multiprotein complex termed EIF4F. The EIF4E polypeptide is the rate-limiting component of the eukaryotic translation apparatus and is involved in the mRNA-ribosome binding step of eukaryotic protein synthesis. The other subunits of EIF4F are a 50-kD polypeptide, termed EIF4A (see MIM 601102), that possesses ATPase and RNA helicase activities, and a 220-kD polypeptide, EIF4G (MIM 600495) (Rychlik et al., 1987 [PubMed 3469651]).[supplied by OMIM]

Other Designations eIF-4F 25 kDa subunit|eukaryotic translation initiation factor 4E-like 1|mRNA cap-binding protein

Pathway

- [Insulin signaling pathway](#)
- [mTOR signaling pathway](#)

Disease

- [Tobacco Use Disorder](#)