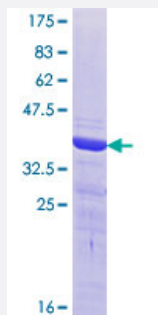


MAFK (Human) Recombinant Protein (Q01)

Catalog # H00007975-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MAFK partial ORF (NP_002351.1, 1 a.a. - 110 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MTNPKPNKALKVKKEAGENAPVLSDELVSMSVRELNQHLRGLTKEEVTRLKQRRRTLKNRGY AASCRVKVTQKEELERQRVELQQEVEKLARENSSMRLELDALRSK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (100); Rat (99)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MAFK

Entrez GeneID [7975](#)

GeneBank Accession# [NM_002360](#)

Protein Accession# [NP_002351.1](#)

Gene Name MAFK

Gene Alias FLJ32205, MGC71717, NFE2U, P18

Gene Description v-maf musculoaponeurotic fibrosarcoma oncogene homolog K (avian)

Omim ID [600197](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The developmentally regulated expression of the globin genes depends on upstream regulatory elements termed locus control regions (LCRs). LCRs are associated with powerful enhancer activity that is mediated by the transcription factor NFE2 (nuclear factor erythroid-2). NFE2 recognition sites are also present in the gene promoters of 2 heme biosynthetic enzymes, porphobilinogen deaminase (PBGD; MIM 609806) and ferrochelatase (FECH; MIM 612386). NFE2 DNA-binding activity consists of a heterodimer containing an 18-kD Maf protein (MafF, MafG (MIM 602020), or MafK) and p45 (MIM 601490). Both subunits are members of the activator protein-1 superfamily of basic leucine zipper (bZIP) proteins (see MIM 165160). Maf homodimers suppress transcription at NFE2 sites.[supplied by OMIM]

Other Designations

basic-leucine zipper transcription factor MafK|erythroid transcription factor NF-E2 p18 subunit|nuclear factor erythroid-2, ubiquitous (p18)|v-maf avian musculoaponeurotic fibrosarcoma oncogene family, protein K|v-maf musculoaponeurotic fibrosarcoma oncog