abcam

Product datasheet

Recombinant Human NFE2 protein ab117042

1 图像

描述

产品名称	重组人NFE2蛋白
表达系统	Wheat germ
Accession	Q16621
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MSPCPPQQSRNRVIQLSTSELGEMELTWQEIMSITELQGLNA PSEPSFEP QAPAPYLGPPPPTTYCPCSIHPDSGFPLPPPPYELPASTSHV PDPPYSYG NMAIPVSKPLSLSGLLSEPLQDPLALLDIGLPAGPPKPQEDP ESDSGLSL NYSDAESLELEGTEAGRRRSEYVEMYPVEYPYSLMPNSLAHS NYTLPAAE TPLALEPSSGPVRAKPTARGEAGSRDERRALAMKIPFPTDKI VNLPVDDF NELLARYPLTESQLALVRDIRRRGKNKVAAQNCRKRKLETIV QLERELER LTNERERLLRARGEADRTLEVMRQQLTELYRDIFQHLRDESG NSYSPEEY ALQQAADGTIFLVPRGTKMEATD
预测分子量	67 kDa including tags
氨基酸	1 to 373

技术指标

Our **Abpromise guarantee** covers the use of **ab117042** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	ELISA
	SDS-PAGE
	Western blot
形式	Liquid

补充说明	This product was previously labelled as Nuclear Factor Erythroid Derived 2.

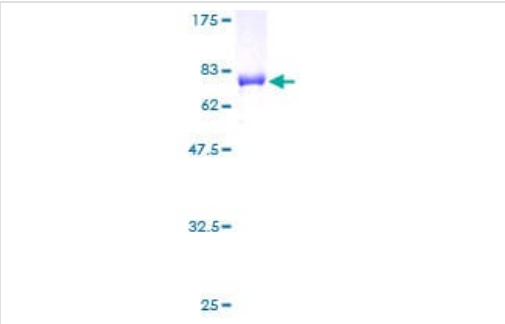
制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

常规信息

功能	Component of the NF-E2 complex essential for regulating erythroid and megakaryocytic maturation and differentiation. Binds to the hypersensitive site 2 (HS2) of the beta-globin control region (LCR). This subunit (NFE2) recognizes the TCAT/C sequence of the AP-1-like core palindrome present in a number of erythroid and megakaryocytic gene promoters. Requires MAFK or other small MAF proteins for binding to the NF-E2 motif. May play a role in all aspects of hemoglobin production from globin and heme synthesis to procurement of iron.
组织特异性	Expressed in hematopoietic cells and also in colon and testis.
序列相似性	Belongs to the bZIP family. CNC subfamily. Contains 1 bZIP domain.
结构域	The PXY motifs are required for binding WW domains. PXY1 is required to promote transactivation of beta-globin and for hyperacetylation of histone H3, but not for binding to the HS2 promoter site.
翻译后修饰	Phosphorylated on serine residues (By similarity). In undifferentiated erythrocytes, phosphorylated by MAPK8 which then leads to ubiquitination and protein degradation. Sumoylated. Sumoylation is required for translocation to nuclear bodies PODs, anchoring to the gene loci, and transactivation of the beta-globin gene. Ubiquitinated mainly by 'Lys63'-linked ubiquitin. Polyubiquitination with 'Lys63'-linked ubiquitin by ITCH retains NFE2 in the cytoplasm preventing its transactivation activity. In undifferentiated erythrocyte, ubiquitinated after MAPK8-mediatd phosphorylation leading to protein degradation.
细胞定位	Nucleus > PML body. Cytoplasm. The sumoylated form locates to the nuclear bodies PML oncogenic domains (PODs). Translocated to the cytoplasm through interaction with ITCH.

图片



SDS-PAGE - Recombinant Human NFE2 protein (ab117042)

12.5% SDS-PAGE stained with Coomassie Blue showing ab117042 at approximately 66.77 kDa.

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