转录因子 NF-E2 抗体

产品货号： mIR22023

英文名称： p45 NF-E2

中文名称： 转录因子 NF-E2 抗体

别　　名： erythroid-derived 2 45 kDa subunit , Leucine zipper protein NF-E2 , Leucine zipper protein NFE2 , NF E2 , nfe2 , NFE2_HUMAN , Nuclear factor (erythroid derived 2), 45kDa , nuclear factor (erythroid-derived 2), 45kD , Nuclear factor , nuclear factor, erythroid 2 , Nuclear factor, erythroid derived 2 45 kDa subunit , p45 , p45 NF-E2 , p45 NFE2 , Transcription factor NF-E2 45 kDa subunit , Transcription factor NFE2 45 kDa subunit .

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应　： Human, Mouse, Rat, Rabbit,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量： 41kDa

细胞定位： 细胞核

性　　状： Lyophilized or Liquid

浓　　度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human NF-E2:273-373/373

亚　　型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed： PubMed

产品介绍： NFE2 (Nuclear Factor, Erythroid 2) is a Protein Coding gene. Diseases associated with NFE2 include Essential Thrombocythemia and Spherocytosis, Type 4. Among its related pathways are Response to elevated platelet cytosolic Ca2+ and Hematopoietic Stem Cell Differentiation. Gene Ontology (GO) annotations related to this gene include DNA binding transcription factor activity and transcription coactivator activity. An important paralog of this gene is NFE2L1.

Function:

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.

Subunit:

Homodimer; can bind DNA as a homodimer. Erythroid transcription activator nuclear factor erythroid-derived 2 (NF-E2), composed of a heterodimer of NFE2 and MAFK, possesses transactivation activity on beta-globin. Also forms high affinity heterodimer with MAFG; the interaction promotes erythropoiesis. Interacts (via the PXY motif 1) with ITCH (via the WW 1 domain); the interaction promotes 'Lys63'-linked ubiquitination of NFE2, translocates it to the cytoplasm and inhibits its transactivation activity. Interacts with KMT2D/MLL2; the interaction promotes transactivation of the beta-globin locus (By similarity). Interacts with MAPK8 (phosphorylated form); the interaction leads to phosphorylation of NFE2 in undifferentiated cells (By similarity).

Subcellular Location:

Nucleus

Tissue Specificity:

Expressed in hematopoietic cells and also in colon and testis.

Post-translational modifications:

Phosphorylated on serine residues. 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 (By similarity).

Similarity:

Belongs to the bZIP family. CNC subfamily.

SWISS:

Q16621

Gene ID:

4778

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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