

KLF4 Monoclonal Antibody

Catalog No: #26047

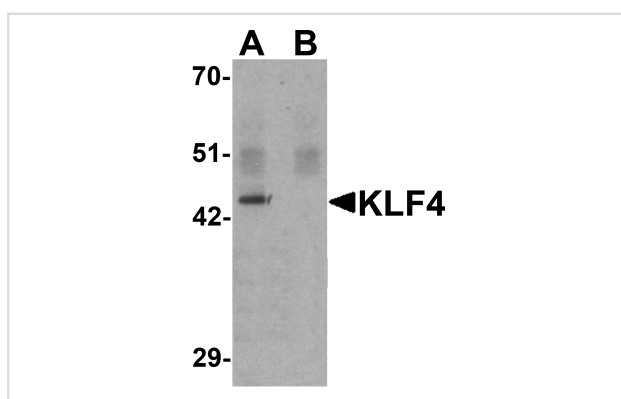
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Description

| | |
|-----------------------|---|
| Product Name | KLF4 Monoclonal Antibody |
| Host Species | Mouse |
| Clonality | Monoclonal |
| Clone No. | mAb (Clone 4G6E11) |
| Purification | KLF4 Monoclonal Antibody is Protein A purified. |
| Applications | ELISA WB |
| Species Reactivity | Hu Ms Rt |
| Specificity | At least three isoforms of KLF4 are known to exist; this antibody will detect all three. KLF4 antibody will not cross-react with other Kruppel-like family members. |
| Immunogen Type | Peptide |
| Immunogen Description | Raised against a 20 amino acid peptide near the carboxy terminus of human KLF4. |
| Target Name | KLF4 |
| Other Names | Kruppel-like factor 4, GKLF, EZF |
| Accession No. | Swiss-Prot:O43474Gene ID:9314 |
| Uniprot | O43474 |
| GeneID | 9314; |
| Concentration | 1mg/ml |
| Formulation | Supplied in PBS containing 0.02% sodium azide. |
| Storage | Can be stored at -20°C, stable for one year. |

Images



Western blot analysis of KLF4 in mouse liver tissue lysate with KLF4 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.

Background

KLF4 is a transcription factor that functions as both a transcriptional activator and repressor to regulate proliferation and differentiation of multiple cell types. The role of KLF4 in embryonic development suggested that it might be useful in the creation of stem cells that might be useful in cell replacement therapies in the treatment of several degenerative diseases. Artificial stem cells, termed induced pluripotent stem (iPS) cells, can be created by expressing KLF4 and the transcription factors POU5F1, Sox2, and Lin28 along with c-Myc in mouse fibroblasts. More recently, experiments have demonstrated that iPS cells could be generated using expression plasmids expressing KLF4, Sox2, POU5F1 and c-Myc, eliminating the need for

virus introduction, thereby addressing a safety concern for potential use of iPS cells in regenerative medicine. KLF4 interacts directly with POU5F1 and Sox2 in iPS and ES cells and activates the target gene NANOG.

Note: This product is for in vitro research use only