

## Rabbit KLF4 Polyclonal Antibody | anti-KLF4 antibody

KLF4 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA40226  | Rabbit | Human, Mouse, Rat | Immunohistochemistry, Western Blot, ELISA |

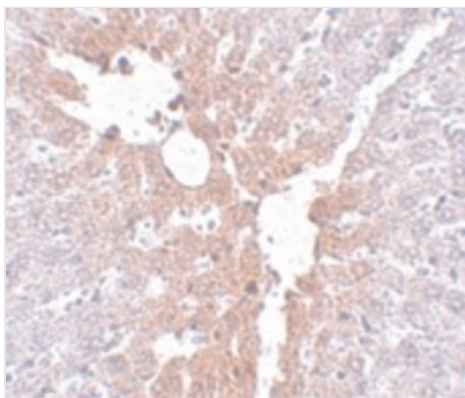
### PRODUCT SYNONYMS

KLF4; Polyclonal Antibody; KLF4 Antibody; EZF; GKLF; Krueppel-like factor 4; Epithelial zinc finger protein EZF; Kruppel-like factor 4 (gut); anti-KLF4 antibody

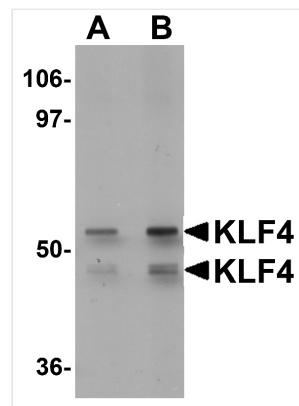
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                            |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                     |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                                                                          |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                 |
| Isotype                                        | IgG                                                                                                                                                                                                                                                        |
| Purity/Purification                            | KLF4 Antibody is affinity chromatography purified via peptide column.                                                                                                                                                                                      |
| Form/Format                                    | Liquid                                                                                                                                                                                                                                                     |
| Concentration                                  | 1 mg/mL (varies by lot)                                                                                                                                                                                                                                    |
| Sequence Length                                | 504                                                                                                                                                                                                                                                        |
| Applicable Applications for anti-KLF4 antibody | IHC (Immunohistochemistry), WB (Western Blot), ELISA                                                                                                                                                                                                       |
| Conjugate                                      | Unconjugated                                                                                                                                                                                                                                               |
| Immunogen                                      | KLF4 antibody was raised against a 20 amino acid synthetic peptide near the carboxy terminus of human KLF4.                                                                                                                                                |
| Buffer                                         | KLF4 Antibody is supplied in PBS containing 0.02% sodium azide.                                                                                                                                                                                            |
| Preparation and Storage                        | KLF4 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |

### IMAGES


**IHC (Immunohistochemistry)**

Immunohistochemistry of KLF4 in rat liver tissue with KLF4 antibody at 5 &amp;#956;g/mL.


**WB (Western Blot)**

Western blot analysis of KLF4 in human liver tissue lysate with KLF4 antibody at (A) 1 and (B) 2 &amp;#956;g/mL.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-KLF4 antibody | KLF4 Antibody: 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. |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 21410813                                                                                                                                    |
| NCBI GeneID                      | 9314                                                                                                                                        |
| UniProt Accession #              | O43474; P78338; Q5T3J8; Q5T3J9; Q8N717; Q9UNP3; B2R8S4; B3KT79; L0R3I6; L0R4N5                                                              |
| Molecular Weight                 | 6,489 Da                                                                                                                                    |
| NCBI Official Full Name          | KLF4 protein                                                                                                                                |
| NCBI Official Synonym Full Names | Kruppel-like factor 4 (gut)                                                                                                                 |
| NCBI Official Symbol             | KLF4                                                                                                                                        |
| NCBI Official Synonym Symbols    | EZF; GKLF                                                                                                                                   |
| NCBI Protein Information         | Krueppel-like factor 4; gut-enriched krueppel-like factor; epithelial zinc finger protein EZF; endothelial Kruppel-like zinc finger protein |
| UniProt Protein Name             | Krueppel-like factor 4                                                                                                                      |
| UniProt Gene Name                | KLF4                                                                                                                                        |
| UniProt Synonym Gene Names       | EZF; GKLF                                                                                                                                   |
| UniProt Entry Name               | KLF4_HUMAN                                                                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.