

Human KLF10 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7016

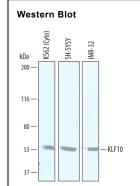
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human KLF10 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human KLF12 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human KLF10 Asn31-Ser154 Accession # Q13118
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human KLF10 by Western Blot. Western blot shows lysates of SH-SY5Y human neuroblastoma cell line and IMR-32 human neuroblastoma cell line and cytoplasmic extracts of K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 1 μg/mL of Sheep Anti-Human KLF10 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7016) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for KLF10 at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a fina	I concentration of 0.2 mg/mL.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

KLF10 (Kruppel-like factor 10; also TIEG1 and EGR- α) is a 55-65 kDa member of the Sp1 C2H2-type zinc-finger protein family. It appears to be very widely expressed, and functions as a transcriptional repressor in a noncovalent complex with JARID1B. KLF10 is induced by TGF- β , GDNF and estrogen, and inhibits transcription of genes such as BI-1, OPG and SMAD7. By suppressing SMAD7, it promotes TGF- β signaling. Human KLF10 is 480 amino acids (aa) in length and contains three C2H2-type zinc-finger motifs (aa 369-451). There is one potential alternate splice form that shows a deletion of aa 2-11. Over aa 31-154, human KLF10 shares 79% aa identity with mouse KLF10/mGIF.

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