

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	<i>E. coli</i> -derived recombinant human KLF10 Asn31-Ser154 Accession # Q13118
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

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