

DESCRIPTION

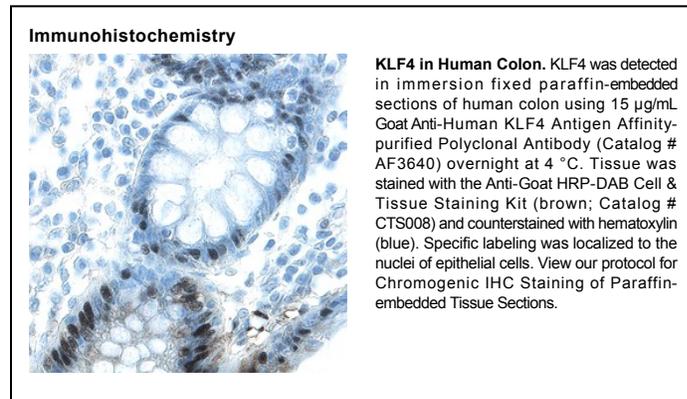
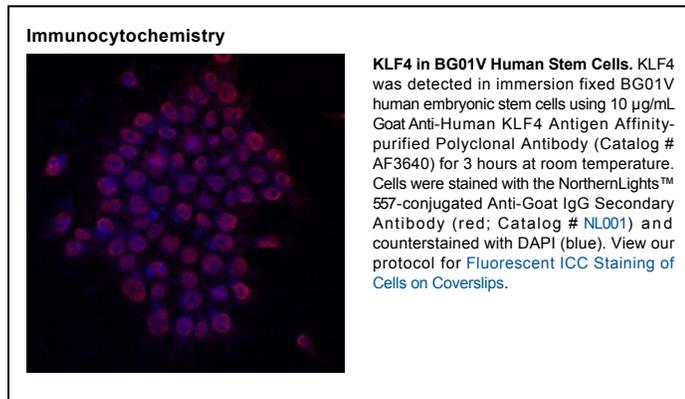
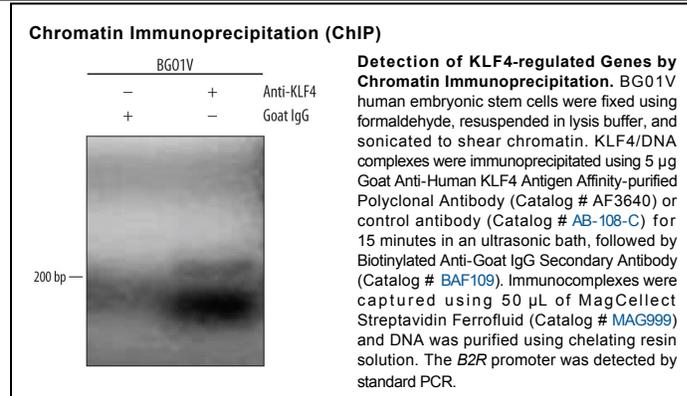
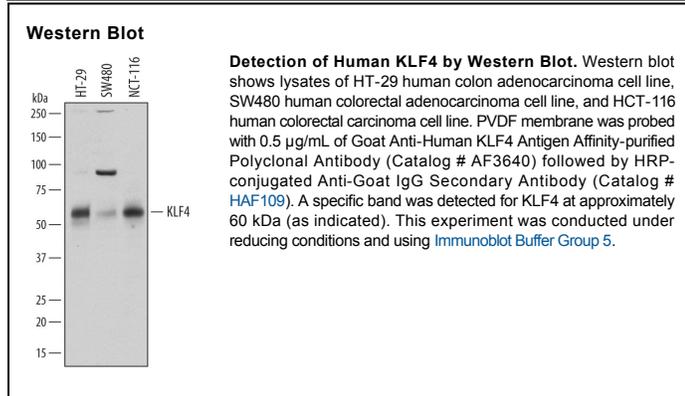
Species Reactivity	Human
Specificity	Detects human KLF4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody shows approximately 50% cross-reactivity with rmKLF4 and less than 1% cross-reactivity with rhKLF5, rhKLF6, and rmKLF15.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human KLF4 Ala2-Phe470 Accession # AAH29923
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 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	0.5 µg/mL	See Below
Chromatin Immunoprecipitation (ChIP)	5 µg/5 x 10 ⁶ cells	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	15 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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

Human KLF4, also known as epithelial zinc finger protein (EZP), is a 53 kDa (470 aa) member of the kruppel C2H2-type zinc finger protein family. It contains three C2H2-type zinc fingers at the carboxyl terminus that preferentially bind to cis-DNA elements that are GC rich. KLF4 regulates the expression of target genes that are involved in different cellular functions. KLF4 is highly expressed in the epithelial cells of the skin and the gastrointestinal tract. Human and mouse KLF4 share 90% amino acid sequence identity.