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Monoclonal Antibody to KLF4 - Purified

Alternate names: EZF, Epithelial zinc finger protein EZF, GKL, Gut-enriched krueppel-like factor, Krueppel-like factor 4

Catalog No.: AM09057PU-S

Quantity: 50 µl

Concentration: 1.0 mg/ml

Background: KLF4, which is also known as the gut-enriched Kruppel-like factor (GKLF), is a zinc finger-containing transcription factor that belongs to the Kruppel-like family of transcription factors. KLF4 plays important roles during the proliferation and differentiation of epithelial cells. Especially, it is found predominantly in gut and has been shown to be expressed during growth arrest. KLF4 is also involved in cell cycle control since expression of KLF4 inhibits DNA synthesis by blocking the G1/S phase of the cell cycle.

Uniprot ID: O43474

NCBI: NP_004226.3

GeneID: 9314

Host / Isotype: Mouse / IgG1

Clone: AT4E6

Immunogen: Recombinant human KLF4 (aa 1-170) purified from E. coli

Format:
State: Liquid purified Ig fraction
Purification: Protein-G affinity chromatography
Buffer System: PBS, pH 7.4, containing 0.09% sodium azide

Applications:
ELISA.
Western blot (1:1,000 - 2,000).
Immunohistochemistry on paraffin-embedded tissues (1:50).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

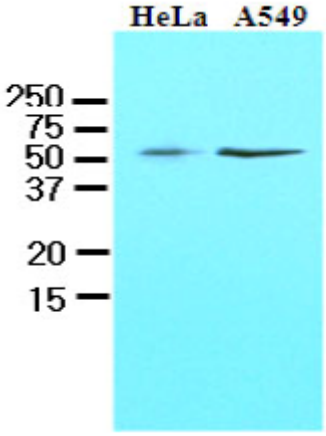
Specificity:
The antibody recognizes human KLF4.
Other species not tested.
Species: Human
Other species not tested.

Storage:
Store the antibody undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

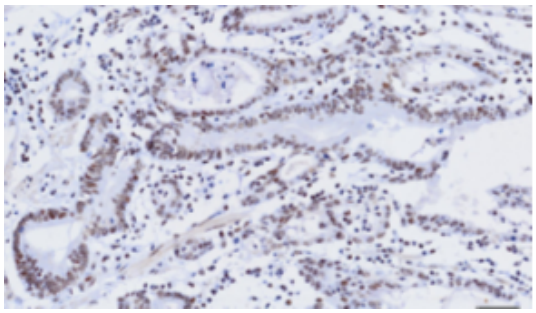
General Readings:
Yan FF, et al., (2008) Med Hypotheses. 70(4):845–7.
Cho YG, et al., (2007) APMIS. 115(7):802–8.

Pictures:

Western blot analysis: Cell lysates of HeLa and A549 (40 µg) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human KLF4 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry: Paraffin embedded sections of human gastric cancer tissue were incubated with anti-human KLF4 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer. Diaminobenzidine (DAB) was used for detection.



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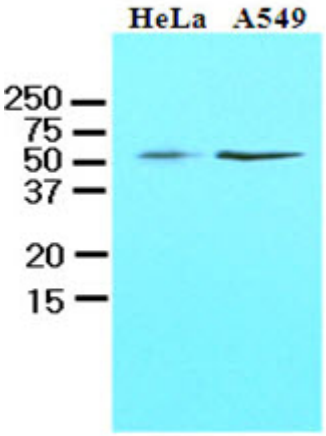
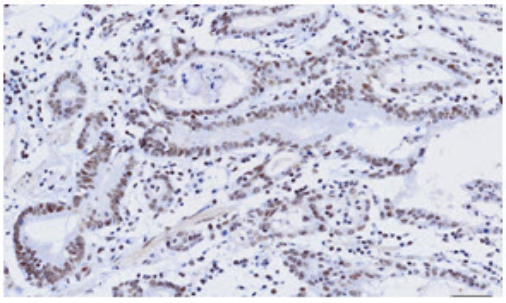


Paraffin embedded sections of human gastric cancer tissue were incubated with anti-human kLF4 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)



Human gastric cancer tissue