Human MED4 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5089

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human MED4 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human MED4 Met80-Asp261 Accession # Q9NPJ6
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.

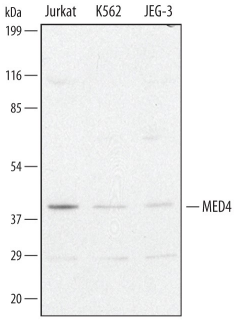
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below

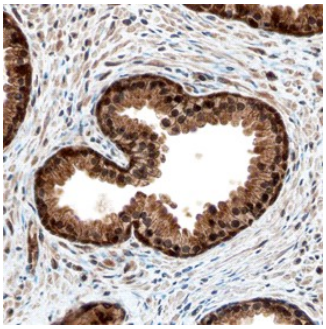
DATA

Western Blot



Detection of Human MED4 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, K562 human chronic myelogenous leukemia cell line, and JEG-3 human epithelial choriocarcinoma cell line. PVDF membrane was probed with 1 µg/mL of Human MED4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5089) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for MED4 at approximately 41 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Immunohistochemistry



MED4 in Human Prostate. MED4 was detected in immersion fixed paraffin-embedded sections of human prostate using Goat Anti-Human MED4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5089) at 3 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei in glandular epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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.** ● 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

MED4 (Mediator complex 4 subunit; also DRIP36) is a 34-36 kDa member of the mediator complex subunit 4 family of proteins. It is part of a 20+ subunit complex named Mediator that serves as a bridge between RNA polymerase II and DNA binding regulatory proteins that cooperate during RNA synthesis. Human MED4 is 270 amino acids (aa) in length and contains two N-terminal coiled-coil regions (aa 24-48 and 90-131) plus a C-terminal poly-Ser region (aa 262-269). Multiple splice variants may exist. There is an alternate start site at Met47 that may be accompanied by a premature truncation after Asp239. There is also a form with a six aa substitution for aa 105-270, and a fourth form that shows a 19 aa substitution for aa 1-41, accompanied by a truncation after Thr260. Over aa 80-261, human MED4 is 97% aa identical to mouse MED4.

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