

DESCRIPTION

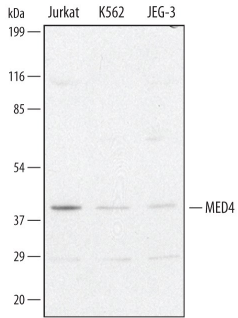
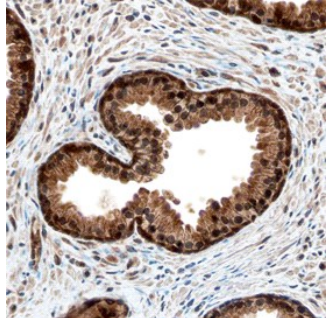
Species Reactivity	Human
Specificity	Detects endogenous human MED4 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human MED4 Met80-Asp261 Accession # Q9NPJ6
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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

<p>Western Blot</p>  <p>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.</p>	<p>Immunohistochemistry</p>  <p>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.</p>
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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

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.