Human AP-2γ Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5059

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human AP-2γ in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human (rh) AP-2α, β, ε and less than 1% cross-reactivity with rhAP-2δ is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human AP-2γ Leu128-Val223 Accession # Q92754
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.

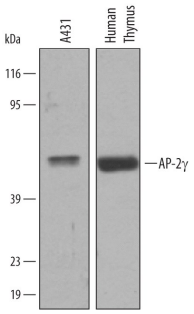
APPLICATIONS

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

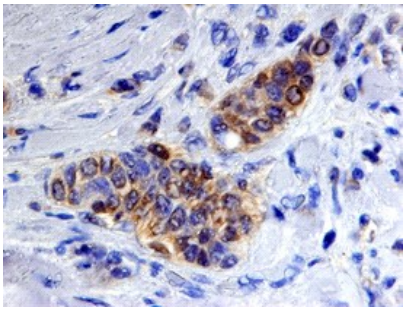
DATA

Western Blot



Detection of Human AP-2γ by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line and human thymus tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human AP-2γ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5059) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for AP-2γ at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



AP-2γ in Human Breast Cancer Tissue. AP-2γ was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using 10 µg/mL Goat Anti-Human AP-2γ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5059) 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 with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). 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

AP-2γ (Activation protein 2 gamma; also ERF-1) is a 50-55 kDa member of the AP-2 transcription factor family. It is essential for kidney development and placentation of the embryo. In the nucleus, it forms homodimers and heterodimers with other AP-2 family members. Elevated AP-2 family members are highly suggestive of neoplasia. Human AP-2γ is 450 amino acids in length. It contains a repressor SUMOylation site as Lys10, a Gln/Pro-rich transactivation domain (aa 30-119) and a helix-span-helix dimerization region (aa 293-424). One potential splice form exists that shows a four aa substitution for the N-terminal 16 aa, followed by a premature truncation after Gly130. Over aa 128-223, human AP-2γ shares 91% and 82% aa sequence identity with porcine and mouse AP-2γ, respectively.

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