Human AP-2β Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF5634

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human AP-2β in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human AP-2β Leu121-Phe218 Accession # Q92481
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.

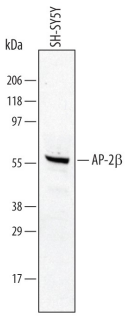
APPLICATIONS

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

DATA

Western Blot



Detection of Human AP-2β by Western Blot. Western blot shows lysates of SH-SY5Y human neuroblastoma cell line . PVDF membrane was probed with 1 µg/mL of Human AP-2β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5634) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for AP-2β at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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-2β (Activating enhancer-binding protein 2-beta; also TFAP2B) is a 52 kDa member of the AP-2 family of transcription factors. It is primarily a fetal-expressed protein, being found in renal and skin epithelial cells, as well as neuroblasts plus cells of the facial mesenchyme. In adults, AP-2β is expressed in renal epithelium. Human AP-2β is 460 amino acids (aa) in length. It contains a transactivation domain (aa 41-131), a DNA-binding motif (aa 132-298) and a C-terminal dimerization region (aa 299-439). SUMOylation occurs on Lys21, adding 15 kDa of MW in SDS-PAGE. AP-2β both homodimerizes, and heterodimerizes with AP-2α and -2γ. Dimers appear important for facial and limb development.

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