

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human YAP1 in ELISA. Detects human, mouse and rat YAP1 in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 867711
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human YAP1 Ala347-Leu504 Accession # P46937
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.

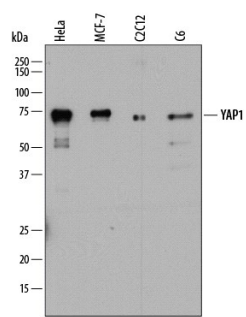
APPLICATIONS

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	2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below
Simple Western	20 µg/mL	See Below

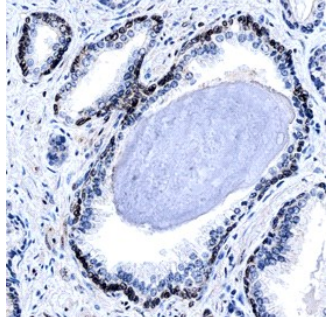
DATA

Western Blot



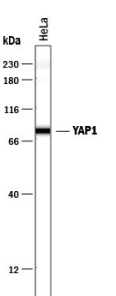
Detection of Human, Mouse, and Rat YAP1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, MCF-7 human breast cancer cell line, C2C12 mouse myoblast cell line, and C6 rat glioma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human YAP1 Monoclonal Antibody (Catalog # MAB8094) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for YAP1 at approximately 70-75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry




YAP1 in Human Prostate. YAP1 was detected in formalin fixed paraffin-embedded sections of human prostate using Mouse Anti-Human YAP1 Monoclonal Antibody (Catalog # MAB8094) at 15 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-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to the nuclei of smooth muscle cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Simple Western



Detection of Human YAP1 by Simple Western™. Simple Western lane view shows lysates of HeLa human cervical epithelial carcinoma cell line, loaded at 0.5 mg/mL. A specific band was detected for YAP1 at approximately 79 kDa (as indicated) using 20 µg/mL of Mouse Anti-Human/Mouse/Rat YAP1 Monoclonal Antibody (Catalog # MAB8094). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

YAP1 (Yes-associated protein 1), also called YAP65 or Yorkie Homolog, is a widely expressed 65 kDa cytoplasmic and nuclear transcriptional regulator protein in the Hippo pathway that regulates organ size. The 504 amino acid (aa) human YAP1 contains two WW (tryptophan-containing protein binding) domains (aa 171-263), a transactivation domain (aa 219-504) and 19 sites that may be phosphorylated by kinases such as LATS1 and 2, MAPK8 and 9, CK1, or ABL1. Isoforms of 488, 454 and 326 aa lack aa 328-343, 230-267 (plus a 3 aa substitution for aa 329-343), or 1-178, respectively. YAP1 binds the Yes tyrosine kinase SH3 domain and many other proteins, notably ErbB4. YAP1 expression is increased in some liver and prostate cancers. Within aa 347-504, human YAP1 shares 94% and 93% aa sequence identity with mouse and rat YAP1, respectively.