

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human KAP1 in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 821912
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human KAP1 Lys266-Ser624 Accession # Q13263
<b>Formulation</b>	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.

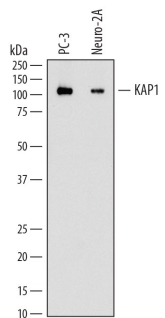
**APPLICATIONS**

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.2 µg/mL	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>Immunohistochemistry</b>	0.5-25 µg/mL	See Below
<b>Simple Western</b>	2 µg/mL	See Below

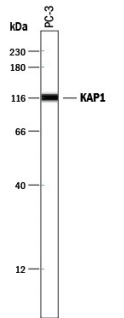
**DATA**

**Western Blot**




**Detection of Human and Mouse KAP1 by Western Blot.** Western blot shows lysates of PC-3 human prostate cancer cell line and Neuro-2A mouse neuroblastoma cell line. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human KAP1 Monoclonal Antibody (Catalog # MAB7785) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for KAP1 at approximately 105 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

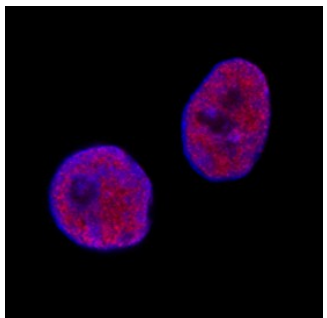
**Simple Western**



**Detection of Human KAP1 by Simple Western™.** Simple Western lane view shows lysates of PC-3 human prostate cancer cell line, loaded at 0.5 mg/mL. A specific band was detected for KAP1 at approximately 117 kDa (as indicated) using 2 µg/mL of Mouse Anti-Human KAP1 Monoclonal Antibody (Catalog # MAB7785). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

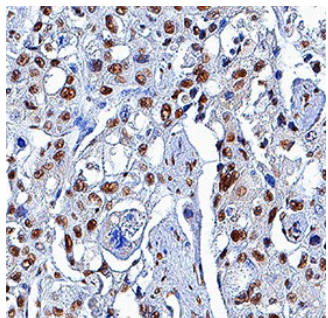


**Immunocytochemistry**



**KAP1 in Neuro-2A Mouse Cell Line.** KAP1 was detected in immersion fixed Neuro-2A mouse neuroblastoma cell line using Mouse Anti-Human KAP1 Monoclonal Antibody (Catalog # MAB7785) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

**Immunohistochemistry**



**KAP1 in Human Liver Cancer Tissue.** KAP1 was detected in immersion fixed paraffin-embedded sections of human liver cancer tissue using Mouse Anti-Human KAP1 Monoclonal Antibody (Catalog # MAB7785) at 0.5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

KAP1 (KRAB-interacting protein 1; gene name TRIM28), also called TIF1b (transcription intermediary factor 1b) is an approximately 100 kDa nuclear corepressor that is a member of the TRIM (tripartite motif-containing) family. It is reported to bind both IRF7 and the SUMO enzyme and cause increased SUMOylation of IRF7. The 834 amino acid (aa) mature protein contains four zinc finger regions and a leucine zipper domain. A 752 aa human splice variant lacking aa 114-195 has been reported. Within the region used as an immunogen, human KAP1 shares 94% aa sequence identity with mouse and rat KAP1.