

**DESCRIPTION**

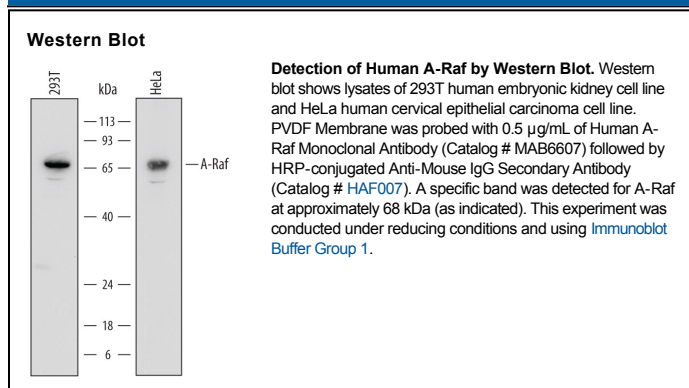
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human A-Raf in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) B-Raf, rhRaf-1 (aa 1-648), rhRaf-1 (aa 189-353), or rhKSR1 is observed. In Western blots, no cross-reactivity with recombinant human (rh) B-Raf or rhKSR1 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 684128
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human A-Raf Asn150-Lys314 Accession # P10398
<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>	0.5 µg/mL	See Below

**DATA**



**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**

The Raf serine/threonine kinases are effectors of Ras that function as MAP3Ks in the ERK phosphorylation cascade. Mammals express three Raf proteins: A-Raf, B-Raf, and Raf-1, also known as C-Raf. Human A-Raf is a 70 kDa protein that shares three regions with B-Raf and Raf-1: aa 14-153 which contains a Ras-binding domain, a Cys-rich domain, and a lipid-binding domain; aa 209-223; and aa 308-573 which contains the Ser/Thr protein kinase domain and a second lipid-binding domain. A-Raf is activated by phosphorylation at Ser 257, 262, and 264. It then regulates multiple processes including endocytic trafficking, glycolysis, cell cycle progression, and apoptosis. Within aa 150-314, human A-Raf shares 87% aa sequence identity with mouse and rat A-Raf.