

**DESCRIPTION**

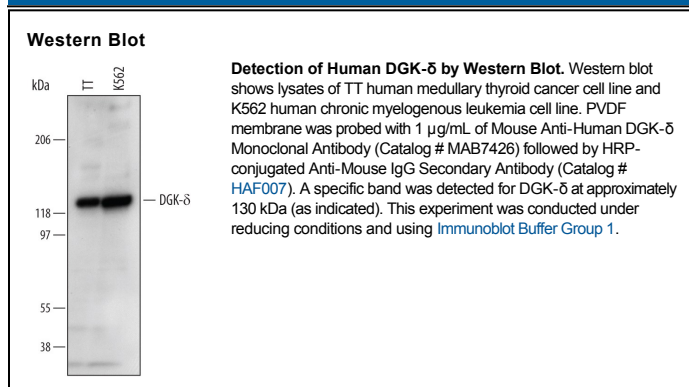
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human DGF- $\delta$ in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 625423
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human DGF- $\delta$ Ile570-Thr717 Accession # Q16760
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 $\mu$ m 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>	1 $\mu$ g/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**

Diacylglycerol kinase delta (DGK- $\delta$ ) is a widely expressed 140 kDa member of the DGK family of kinases that phosphorylate the lipid diacylglycerol. DGK- $\delta$  contains a pleckstrin homology domain (aa 53-146), two zinc finger domains (aa 163-213 and aa 235-286), a catalytic domain (aa 317-451), and a sterile alpha motif (aa 1145-1208). An isoform of DGK- $\delta$  with a shortened N-terminus is expressed predominantly in ovary and spleen. The two isoforms can form intracellular homoooligomers or heteroooligomers with each other. The oligomers are disrupted by PKC following phorbol ester stimulation. DGK- $\delta$  regulates PKC mediated signaling downstream of the EGF receptor. Within aa 570-717, human DGK- $\delta$  shares 82% aa sequence identity with mouse and rat DGK- $\delta$ .