

#### DESCRIPTION

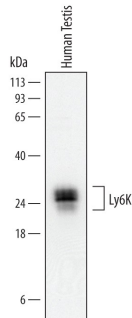
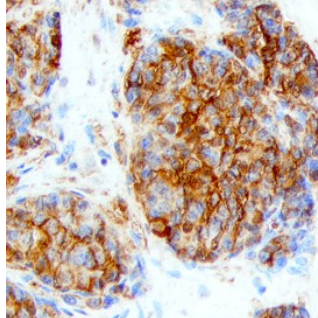
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Ly6K in Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human Ly6K Asp18-Gly138 Accession # Q17RY6
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.25 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

#### DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human Ly6K by Western Blot.</b> Western blot shows lysates of human testis tissue. PVDF Membrane was probed with 0.25 µg/mL of Sheep Anti-Human Ly6K Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6648) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). Specific bands were detected for Ly6K at approximately 25-27 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>Ly6K in Human Lung Cancer Tissue.</b> Ly6K was detected in immersion fixed paraffin-embedded sections of human lung cancer tissue using Sheep Anti-Human Ly6K Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6648) at 3 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-Sheep HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm and plasma membrane of cancer cells. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 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

Ly6K (Lymphocyte antigen 6 locus K; also CO16) is a 26-27 kDa member of the Ly-6 antigen family of molecules. It has restricted expression, being described in testis and skin. Ly6K is found in/on carcinomas, and is known to circulate in normal and tumor-patient blood. Mature human Ly6K is a 121 amino acid (aa) GPI-linked (presumed) glycoprotein. It is synthesized as a 165 aa preproprecursor that contains a 17 aa signal sequence, a 121 aa mature region (aa 18-138), and a 27 aa C-terminal propeptide. There are two potential splice variants, one that shows a 48 aa substitution, and another that shows a 33 aa substitution for aa 73-165. It is not clear if mouse Ly6K is a true molecular ortholog of human Ly6K. In any event, over aa 18-138, human Ly6K shares 39% aa identity with mouse Ly6K.