

DESCRIPTION

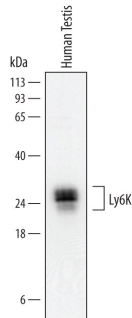
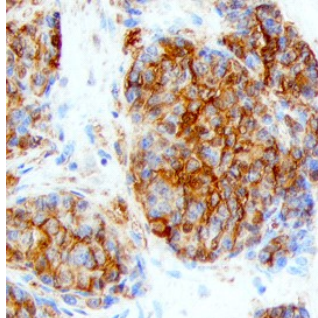
Species Reactivity	Human
Specificity	Detects human Ly6K in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Ly6K Asp18-Gly138 Accession # Q17RY6
Formulation	Lyophilized from a 0.2 µm filtered solution 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	0.25 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human Ly6K by Western Blot. 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>Immunohistochemistry</p>  <p>Ly6K in Human Lung Cancer Tissue. 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 & 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 Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

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.