Human SLPI Antibody
Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1274

DESCRIPTION
Species Reactivity: Human
Specificity: Detects human SLPI in direct ELISAs and Western blots. In direct ELISAs, less than 15% cross-reactivity with mouse SLPI is observed.
Source: Polyclonal Goat IgG
Purification: Antigen Affinity-purified
Immunogen: E. coli-derived recombinant human SLPI
Formulation: Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>0.1 µg/mL</td>
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<tr>
<td>Recombinant Human SLPI (Catalog # 1274-PI)</td>
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<tr>
<td>Immunohistochemistry</td>
<td>5-15 µg/mL</td>
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<tr>
<td>Neutralization</td>
<td>Measured by its ability to neutralize Recombinant Human SLPI (0.125 µg/mL, Catalog # 1274-PI) inhibition of Trypsin (0.05 µg/mL) cleavage of the fluorogenic peptide substrate Mca-RPKPVE-Nval-WRK(Dnp)-NH₂ (10 µM, Catalog # ES002). The Neutralization Dose (ND₅₀) is typically 2 µg/mL.</td>
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DATA
Immunohistochemistry
SLPI in Human Lung.
SLPI was detected in immunofluorescence fixed paraffin-embedded sections of human lung using Goat Anti-Human SLPI Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1274) at 10 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE
Reconstitution: Reconstitute at 0.2 mg/mL in sterile PBS.
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.
- 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
SLPI is a member of the Serpin family and is primarily expressed in secretory glandular epithelial cells. It is found in various secretory fluids and functions as a potent inhibitor of many proteolytic enzymes. SLPI can modulate cell proliferation and has been shown to have anti-inflammatory, anti-viral, and anti-bacterial activities (1, 2).

References: