

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Trappin-2/Elafin in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant human (rh) SLPI, rhTGM-2, and human Neutrophil Elastase is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Trappin-2/Elafin (R&D Systems, Catalog # 1747-PI) Ala23-Gln117 Accession # P19957
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Human Trappin-2/Elafin (Catalog # 1747-PI)
<b>Human Trappin-2/Elafin Sandwich Immunoassay</b>		<b>Reagent</b>
<b>ELISA Capture</b>	0.2-0.8 µg/mL	Human Trappin-2/Elafin Antibody (Catalog # AF1747)
<b>ELISA Detection</b>	0.1-0.4 µg/mL	Human Trappin-2/Elafin Biotinylated Antibody (Catalog # BAF1747)
<b>Standard</b>		Recombinant Human Trappin-2/Elafin (Catalog # 1747-PI)

#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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

Trappin-2 is the human member of the trappin gene family that contains SLPI (1). Trappin-2 consists of an N-terminal transglutaminase substrate domain (residues 23-60) and a C-terminal four-disulfide core or whey acidic protein (WAP) domain (residues 72-117). Elafin or ESI (elastase-specific inhibitor) and SKALP (skin-derived anti-leucoproteinase) are alternative names for Trappin-2 and reflect its protease targets. However, elafin and SKALP sometimes correspond only to the processed form that contains the C-terminal WAP domain of the molecule, which can be isolated naturally.

#### References:

1. Schalkwijk, J. *et al.* (1999) *Biochem. J.* **340**:569.