Human Trappin-2/Elafin Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1747

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Trappin−2/Elafin Ala23-Gln117 Accession # P19957
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.

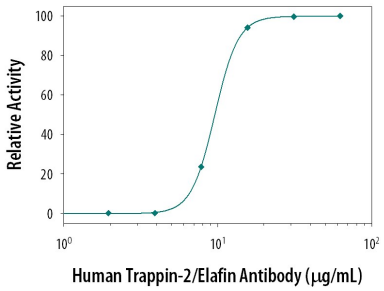
APPLICATIONS

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	0.1 µg/mL	Recombinant Human Trappin−2/Elafin (Catalog # 1747-PI)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Trappin−2/Elafin (Catalog # 1747-PI), see our available Western blot detection antibodies
Human Trappin-2/Elafin Sandwich Immunoassay		**Reagent**
ELISA Capture	0.2-0.8 µg/mL	Human Trappin−2/Elafin Antibody (Catalog # AF1747)
ELISA Detection	0.1-0.4 µg/mL	Human Trappin−2/Elafin Biotinylated Antibody (Catalog # BAF1747)
Standard		Recombinant Human Trappin−2/Elafin (Catalog # 1747-PI)
Neutralization	Measured by its ability to neutralize Recombinant Human Trappin-2/ Elafin (1 µg/mL, Catalog # 1747-PI) inhibition of Recombinant Mouse Neutrophil Elastase/ELA2 (1 µg/mL, Catalog # 4517-SE) cleavage of the fluorogenic peptide substrate MeOSuc-AAPV-Amc (100 µM). The Neutralization Dose (ND_{50}) is typically 15.6 µg/mL.	

DATA

Neutralization



Neutralization of Trappin-2/ Elafin Activity by Human Trappin-2/Elafin Antibody. Recombinant Mouse Neutrophil Elastase/ELA2 (1 µg/mL, Catalog # 4517-SE) activity is measured in the presence of Recombinant Human Trappin-2/ Elafin (1 µg/mL, Catalog # 1747-PI) that has been preincubated with increasing concentrations of Goat Anti-Human Trappin-2/Elafin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1747). The ND_{50} is typically 15.6 µg/mL.

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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

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. The recombinant human Trappin-2 corresponds to the full-length form (residues 23-117), which migrates as two protein bands under SDS-PAGE due to an unidentified mechanism. In addition to its ability to inhibit human neutrophil elastase, it can also be used as a substrate for transglutaminases.

References:

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

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 **Europe | Middle East | Africa** TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956