Human Tryptase γ-1/TPSG1 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1667T
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Tryptase γ-1/TPSG1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Tryptase γ-1/TPSG1 Arg20-Arg281 Accession # Q9NRR2
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

As mediators of inflammatory and allergic response, mast cells are found throughout the body concentrated near blood vessels in connective tissue and the mucous membranes of the respiratory and gastrointestinal tract (3). Upon activation, human mast cells release granules that are enriched with neutral serine proteases including Tryptases, chymase and cathepsin G (4). Tryptase γ-1, also called transmembrane Tryptase, is encoded by TPSG1, one of many serine protease genes clustered in human chromosome 16p13.3 (5). Human Tryptase γ-1 is synthesized as a 321 amino acid preproenzyme with a C-terminal transmembrane anchor (1, 2). The rhTPSG1 was expressed as a soluble protein terminated at residue 281 and corresponded to the proenzyme. The proenzyme can be cleaved by trypsin to form the active enzyme. The serine protease activity of trypsin-activated rhTPSG1 can be inhibited by ecotin (R&D Systems, Catalog # 1328-PI). Greater than 95% protease activity is inhibited by ecotin at approximately 10:1 molar ratio.

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