

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GGT5 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf21-derived recombinant human GGT5 Ser30-Tyr586 Accession # P36269
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

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

GGT5 (Gamma GlutamylTranspeptidase 5; also GGL, GGT-rel and γ-leukotrienease) is a 74-77 kDa member of the γ-glutamyltransferase family of enzymes. It is suggested that multiple cell types express GGT5, including neurons, lymphocytes, myocardium and bronchial epithelium. It is also expressed on the surface of endothelial cells, and serves to both metabolize GSH to CysGly, and convert LTC4 to LTD4, an action that appears necessary for targeted inflammatory cell migration. Human GGT5 is a 586 amino acid (aa) type II transmembrane (TM) glycoprotein. It undergoes processing to generate a disulfide-linked heterodimer composed of a 56-58 kDa membrane-embedded heavy chain (aa 1-387, with the TM segment lying between aa 9-29) and a 20-21 kDa light chain (aa 388-586). There is one potential splice variant that shows a deletion of aa 112-133. Over aa 30-586, human GGT5 shares 78% aa identity with mouse GGT5.

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