

Anti-GGT1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 61 kDa. Actual: 61 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: 293T Cell (Human) Lysate at 40 µg
	Primary: Anti-GGT1 (TMAB-06461) at 1/300 dilution
	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 61 kD
	Observed band size: 61 kD
	2. Sample:
	Lane 1: Liver (Mouse) Tissue Lysate at 40 µg
	Lane 2: Liver (Rat) Tissue Lysate at 40 µg
	Lane 3: Thymus (Rat) Tissue Lysate at 40 µg
	Lane 4: A549 (Human) Cell Lysate at 30 µg
	Lane 5: U937 (Human) Cell Lysate at 30 µg
	Lane 6: HepG2 (Human) Cell Lysate at 30 µg
	Primary: Anti-GGT1 (TMAB-06461) at 1/1000 dilution
	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 61 kD
Observed band size: 61 kD	
3. Sample:	
Lane 1: Mouse kidney lysates	
Lane 2: Mouse Stomach lysates	
Lane 3: Mouse Large intestine lysates	
Primary: Anti-GGT1 (TMAB-06461) at 1/1000 dilution	
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution	
Predicted band size: 61 kDa	
Observed band size: 61 kDa	
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human GGT1
Antigen Species: Human
Gene ID: 2678
Uniprot ID: P19440

Research Background

Initiates extracellular glutathione (GSH) breakdown, provides cells with a local cysteine supply and contributes to maintain intracellular GSH level. It is part of the cell antioxidant defense mechanism. Catalyzes the transfer of the glutamyl moiety of glutathione to amino acids and dipeptide acceptors. Alternatively, glutathione can be hydrolyzed to give Cys-Gly and gamma glutamate. Isoform 3 seems to be inactive.

Tissue specificity: Detected in fetal and adult kidney and liver, adult pancreas, stomach, intestine, placenta and lung. Isoform 3 is lung-specific. There are several other tissue-specific forms that arise from alternative promoter usage but that produce the same protein.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481