

Anti-Tryptophan Hydroxylase 1 Antibody (7R847)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7R847
Purification:	Protein A

Applications

Verified Activity:	<p>1. TPH1 was immunoprecipitated using:</p> <ul style="list-style-type: none">-Lane A:0.5 mg Jurkat Whole Cell Lysate.-Lane B:0.5 mg THP-1 Whole Cell Lysate-0.5 µL anti-TPH1 rabbit monoclonal antibody and 60 µg of Immunomagnetic beads Protein G.-Primary antibody:-Anti-TPH1 rabbit monoclonal antibody, at 1:500 dilution.-Secondary antibody:-Clean-Blot[®] IP Detection Reagent (HRP) at 1:500 dilution.-Developed using the DAB staining technique.-Performed under reducing conditions. <p>2. Anti-TPH1 rabbit monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none">-Lane A: THP1 Whole Cell lysate.-Lysates/proteins at 30 µg per lane.-Secondary-Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.-Developed using the Odyssey technique.-Performed under reducing conditions.-Predicted band size:55 kDa.-Observed band size:55 kDa(We are unsure as to the identity of these extra bands.)
Application:	IP,WB
Recommended	WB: 1:500-1:1000; IP: 0.2-1 µL/mg of lysate

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. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human Tryptophan Hydroxylase 1 / TPH1 Protein (TMPY-01959)

Antigen Species: Human

Biology Area: Neurotransmitter Associated Enzymes

Research Background

Tryptophan 5-hydroxylase 1, also known as Tryptophan 5-monoxygenase 1, Tryptophan hydroxylase 1, TPH1, TPH and TPRH, is an enzyme that belongs to the bipterin-dependent aromatic amino acid hydroxylase family. TPH1 contains one ACT domain. Tryptophan hydroxylase catalyzes the bipterin-dependent monoxygenation of tryptophan to 5-hydroxytryptophan (5HT), which is subsequently decarboxylated to form the neurotransmitter serotonin. It is the rate-limiting enzyme in the biosynthesis of serotonin. It is the rate-limiting enzyme in the biosynthesis of serotonin. TPH1 expression is limited to a few specialized tissues: raphe neurons, pinealocytes, mast cells, mononuclear leukocytes, beta-cells of the islets of Langerhans, and intestinal and pancreatic enterochromaffin cells. The tryptophan hydroxylase 1 (TPH1) gene is also reported to be associated with suicidal behavior. Polymorphisms of TPH1 may assist in identifying a subgroup of mood disorder patients that is at higher risk for suicidal behavior.

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