

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Tryptophan Hydroxylase 1/TPH-1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 508417
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Tryptophan Hydroxylase 1/TPH-1 Met102-Pro403 Accession # P17752
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 either lyophilized or 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	1 µg/mL	Recombinant Human Tryptophan Hydroxylase 1/TPH-1
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Tryptophan Hydroxylase 1/TPH-1, see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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.

BACKGROUND

Tryptophan Hydroxylase-1 (TPH-1) is a member of the pterin-dependent aromatic acid hydroxylase family. It catalyzes the first and rate limiting step in the biosynthesis of serotonin, an important hormone and neurotransmitter. The amino acid sequence of human TPH-1 is 96%, 90%, and 87% identical to that of cow, mouse, and chicken.