

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Tripeptidyl-Peptidase I/TPP1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 254008
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Tripeptidyl-Peptidase I/TPP1 Ser20-Pro563 Accession # O14773
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

Tripeptidyl-Peptidase I (TPP1), also known as tripeptidyl aminopeptidase, is a lysosomal peptidase which can hydrolyze tripeptides from the N-termini of oligopeptides and also possesses weak endopeptidase activity (1-3). TPP1 is a serine peptidase with a Ser-Glu-Asp catalytic triad, making it a member of the sedolisin family (4). The TPP1 precursor undergoes autoactivation under conditions of acidic pH (4). TPP1 is expressed in many tissues, with elevated expression in tissues associated with peptide hormone production (5). Mutations in TPP1 have been shown to be a cause of classic late-infantile neuronal ceroid lipofuscinosis (CLN2), a lysosomal storage disease (6).

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