

Rabbit anti-Mouse Thimet Oligopeptidase/THOP1 Polyclonal Antibody | anti-THOP1 antibody

Anti-Thimet Oligopeptidase/THOP1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257235	Rabbit	Mouse	Immunoprecipitation, ELISA, Western Blot

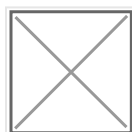
PRODUCT SYNONYMS

Thimet Oligopeptidase/THOP1; Polyclonal Antibody; Anti-Thimet Oligopeptidase/THOP1 Antibody; Rabbit Polyclonal; THOP1 Antibody; Rabbit PAb; Antigen Affinity Purified; thimet oligopeptidase 1; Anti-A1131655 Antibody; Anti-A1327041 Antibody; Anti-EP24.15 Antibody; anti-THOP1 antibody

PRODUCT SPECIFICATIONS

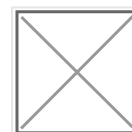
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Thimet Oligopeptidase/THOP1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-THOP1 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse THOP1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse THOP1 (rM THOP1). THOP1 specific IgG was purified by Mouse THOP1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-THOP1 rabbit polyclonal antibody at 1:500 dilution Lane A: HCT116 Whole Cell Lysate Lane B: HELA Whole Cell Lysate Lane C: K562 Whole Cell Lysate Lane D: 293T Whole Cell Lysate Lysates/proteins at 30 ug 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: 79 kDa Observed band size: 72 kDa



IP (Immunoprecipitation)

Mouse THOP1 was immunoprecipitated using: Lane A: 0.5 mg K562 Whole Cell Lysate 2 uL anti-Mouse THOP1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-Mouse THOP1 rabbit polyclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique. Performed under reducing conditions. Predicted band size: 80 kDa Observed band size: 80 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-THOP1 antibody	THOP1, also known as Thimet oligopeptidase 1, Thimet oligopeptidase, EC 3.4.24.15, or EP24.15, is a zinc(II) endopeptidase implicated in the processing of numerous physiological peptides. As an intracellular enzyme, highly expressed in the brain, kidneys and neuroendocrine tissue, THOP1 has been proposed to metabolize peptides within cells, thereby affecting antigen presentation and G protein-coupled receptor signal transduction. Its substrate is gonadotrophin-releasing hormone (GnRH), an important hypothalamic hormone that regulates the synthesis and release of oestradiol and facilitates female sexual behaviour. THOP1 against toxic effects of Abeta in the early stages of Alzheimer disease (AD) pathology, and suggest that the observed increase in THOP1 expression might be part of a compensatory defense mechanism of the brain against an increased Abeta load.
References	Cyr NE, et al. (2010) Nuclear Thimet oligopeptidase is coexpressed with oestrogen receptor alpha in hypothalamic cells and regulated by oestradiol in female mice. J Neuroendocrinol. 22(8): 936-43. Berti DA, et al. (2009) Analysis of intracellular substrates and products of thimet oligopeptidase in human embryonic kidney 293 cells. J Biol Chem. 284(21): 14105-16. Russo LC, et al. (2009) Interaction with calmodulin is important for the secretion of thimet oligopeptidase following stimulation. FEBS J. 276(16): 4358-71. Pollio G, et al. (2008) Increased expression of the oligopeptidase THOP1 is a neuroprotective response to Abeta toxicity. Neurobiol Dis. 31(1): 145-58. Bruce LA, et al. (2008) Hydrogen bond residue positioning in the 599-611 loop of thimet oligopeptidase is required for substrate selection. FEBS J. 275(22): 5607-17.

NCBI AND UNIPROT INFORMATION

NCBI GI #	239916005
NCBI GeneID	50492
NCBI Accession #	NP_073144.3
NCBI GenBank Nucleotide #	NM_022653.4
UniProt Accession #	Q8C1A5; Q8K0J9; Q8K2D4; Q9EPX1
Molecular Weight	78,026 Da
NCBI Official Full Name	thimet oligopeptidase
NCBI Official Synonym Full Names	thimet oligopeptidase 1
NCBI Official Symbol	Thop1
NCBI Official Synonym Symbols	EP24.15; AI131655; AI327041
NCBI Protein Information	thimet oligopeptidase; endopeptidase 24.15
UniProt Protein Name	Thimet oligopeptidase
UniProt Gene Name	Thop1
UniProt Entry Name	THOP1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/thimet-oligopeptidase-thop1-antibody-immunoprecipitation-western-blot-elisa/257235>