Mouse/Rat TRH-degrading Ectoenzyme/ TRHDE Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2985

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat TRH-degrading Ectoenzyme/TRHDE in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TRH-degrading Ectoenzyme/TRHDE Arg64-His1025 Accession # Q8K093
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.

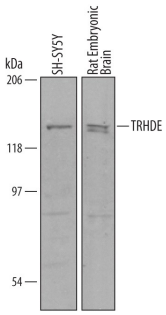
APPLICATIONS

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	See Below

DATA

Western Blot



Detection of Mouse and Rat TRH-degrading Ectoenzyme/ TRHDE by Western Blot. Western blot shows lysates of SH-SY5Y human neuroblastoma cell line and embryonic rat brain hippocampal glial . PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse/Rat TRH-degrading Ectoenzyme/TRHDE Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2985) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for TRH-degrading Ectoenzyme/TRHDE at approximately 125 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 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

TRHDE, also known as pyroglutamyl peptidase II and thyroliberinase, is a metalloprotease that specifically removes pyroglutamate from thyrotropin-releasing hormone, a tripeptide of L-pyroglutamyl-L-histidyl-L-prolineamide. TRH functions as a hypothalamic hypophysiotropic neuropeptide and neurotransmitter/neuromodulator within the central nervous system (1). Inhibitors of TRHDE have potential applications as research and therapeutic agents because TRHDE inactivates TRH (2). TRHDE is a type II transmembrane protein and a soluble form is also present in the serum (1). The recombinant mouse TRHDE corresponds to the ectodomain of the enzyme. Its amino acid sequence is 97% and 95% identical to that of rat and human.

References:

1. Schmitmeier, S. *et al.* (2002) Eur. J. Biochem. **269**:1278.
2. Kelly, J.A. *et al.* (2005) Biochem. J. **389**:569.

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