Mouse/Rat Kynureninase Antibody

Antigen Affinity-purified Polyclonal Sheep IgG

Catalog Number: AF7389

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat Kynureninase in Western blots. Detects recombinant mouse Kynureninase in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human Kynureninase is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Kynureninase Gly267-Ser464 Accession # Q9CXF0
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 as a 0.2 μm filtered solution in PBS.

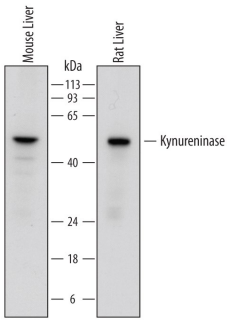
APPLICATIONS

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	0.25 µg/mL	See Below

DATA

Western Blot



Detection of Mouse and Rat Kynureninase by Western Blot. Western blot shows lysates of mouse liver tissue and rat liver tissue. PVDF membrane was probed with 0.25 µg/mL of Sheep Anti-Mouse Kynureninase Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7389) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Kynureninase at approximately 50-55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

Kynu (kyureninase (a hydrolase that acts on dog [Greek: kyon] urine [Greek: ouron]) is a 52-55 kDa member of the kyureninase family of enzymes. It is a pyridoxal phosphate-dependent cytosolic hydrolase that occurs in a variety of cell types, including hepatocytes and macrophages. Kynu participates in the metabolism of tryptophan. Dietary Trp is either incorporated into protein, or metabolized into niacin, serotonin or NAD. Kynu catalyzes one of two steps that lead to the formation of a key downstream intermediate called 3-hydroxyanthranilic acid. Mouse Kynu is 464 amino acids (aa) in length. It contains one large catalytic site (aa 24-462), and typically functions as a noncovalent homodimer. There are at least two potential isoform variants. One contains a three aa substitution for aa 425-464, while another possesses a 22 aa substitution for aa 302-464. Over aa267-464 mouse Kynu shares 91% and 80% aa sequence identity with rat and human Kynu, respectively.

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