

## DESCRIPTION

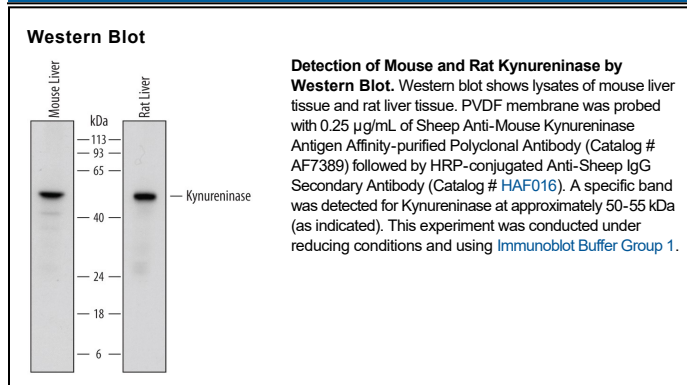
<b>Species Reactivity</b>	Mouse/Rat
<b>Specificity</b>	Detects mouse and rat Kynureninase in Western blots. Detects recombinant mouse Kynureninase in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human Kynureninase is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse Kynureninase Gly267-Ser464 Accession # Q9CXF0
<b>Formulation</b>	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
<b>Western Blot</b>	0.25 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Kynu (kynureninase (a hydrolase that acts on dog [Greek: kyon] urine [Greek: ouron]) is a 52-55 kDa member of the kynureninase 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.