

## DESCRIPTION

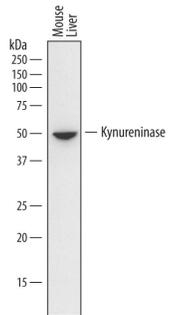
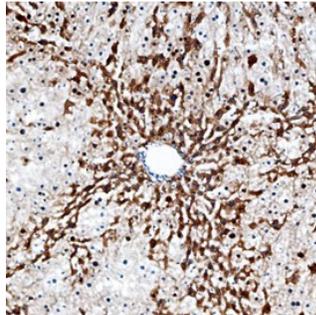
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Kynureninase in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Kynureninase is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 771312
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse Kynureninase Met1-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 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>	0.5 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

## DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Mouse Kynureninase by Western Blot.</b> Western blot shows lysates of mouse liver tissue. PVDF membrane was probed with 0.5 µg/mL of Rat Anti-Mouse Kynureninase Monoclonal Antibody (Catalog # MAB7389) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Kynureninase at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using <a href="#">Immunoblot Buffer Group 1</a>.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>Kynureninase in Mouse Liver.</b> Kynureninase was detected in perfusion fixed frozen sections of mouse liver using Rat Anti-Mouse Kynureninase Monoclonal Antibody (Catalog # MAB7389) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS017) and counter-stained with hematoxylin (blue). Specific staining was localized to cytoplasm of hepatocytes. View our protocol for <a href="#">Chromogenic IHC Staining of Frozen Tissue Sections</a>.</p>
---	---

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 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

Kyureninase (KYNU, a hydrolase that acts on dog [Greek: kyon] urine [Greek: ouron]) is a 50-55 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. Kyureninase participates in the metabolism of tryptophan. Dietary Trp is either incorporated into protein, or metabolized into niacin, serotonin or NAD. Kyureninase catalyzes one of two steps that lead to the formation of a key downstream intermediate called 3-hydroxyanthranilic acid. Mouse Kyureninase 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. Full-length mouse Kyureninase shares 92% and 83% aa sequence identity with rat and human Kyureninase, respectively.