

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Kynureninase in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Kynureninase is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 771312
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Kynureninase Met1-Ser464 Accession # Q9CXF0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.