

Human Kynureninase Antibody

Monoclonal Mouse IgG₁ Clone # 589731

Catalog Number: MAB4887

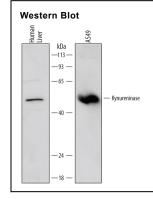
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Kynureninase in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant mouse Kynureninase is observed.		
Source	Monoclonal Mouse IgG ₁ Clone # 589731		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human Kynureninase Met1-Asn465 Accession # Q16719		
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	2 μg/mL	See Below

DATA



Detection of Human Kynureninase by Western Blot. Western blot shows lysates of human liver tissue and A549 human lung carcinoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Kynureninase Monoclonal Antibody (Catalog # MAB4887) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Kynureninase at approximately 52 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

DDEDARATION AND STORAGE

PREPARATION AND STORAGE			
Reconstitution	Sterile PBS to a final concentration of 0.5 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.		

Kynureninase (KYNU) catalyzes the hydrolytic cleavage of the amino acids L-kynurenine and L-3-hydroxykynurenine to give either anthranilic acid or 3hydroxyanthranilic acid and alanine. KYNU and other "kynurenine pathway" enzymes degrade dietary tryptophan in the liver and are involved in the de novo biosynthesis of NAD+. KYNU and other pathway proteins in immune system cells, such as macrophages and microglia, catalyze inflammatory quinolinic acid (QA) production, which may cause neuronal damage in AIDS-related dementia complex, Alzheimer's, stroke, epilepsy, and Huntington's disease. Human KYNU shares 83% and 85% amino acid identity with mouse and human KYNU, respectively.

