

KYNU Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56447

Specification

KYNU Polyclonal Antibody - Product Information

Application
Primary Accession

Reactivity
Host
Clonality
Calculated MW
Physical State
Immunogen

3

Epitope Specificity

Isotype **Purity**

affinity purified by Protein A

Buffer

SUBCELLULAR LOCATION

SIMILARITY DISEASE IHC-P, IHC-F, IF, ICC, E

Q16719

Rat, Pig, Dog, Bovine

Rabbit Polyclonal 52 KDa Liquid

KLH conjugated synthetic peptide derived

from human KYNU

401-465/465

laG

0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

Cytoplasm.

Belongs to the kynureninase family. Note=Xanthurenic aciduria manifesting as massive urinary excretion of large amounts of kynurenine, 3-hydroxykynurenine and xanthurenic acid has been observed in an individual carrying a homozygous missense change in KYNU (PubMed:17334708). The urinary pattern in the patient suggests kynureninase deficiency and a block in the

conversion of kynurenine and

3-hydroxykynurenine to anthranilate and 3-hydroxyanthranilate, respectively. This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Kynureninase is a pyridoxal-5'-phosphate (pyridoxal-P) dependent enzyme that catalyzes the cleavage of L-kynurenine and L-3-hydroxykynurenine into anthranilic and 3-hydroxyanthranilic acids, respectively. Kynureninase is involved in the biosynthesis of NAD cofactors from tryptophan through the kynurenine pathway. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2010]

KYNU Polyclonal Antibody - Additional Information

Gene ID 8942

Important Note



Other Names

Kynureninase {ECO:0000255|HAMAP-Rule:MF_03017}, 3.7.1.3 {ECO:0000255|HAMAP-Rule:MF_03017, ECO:0000269|PubMed:11985583,

ECO:0000269|PubMed:17300176, ECO:0000269|PubMed:8706755,

ECO:0000269|PubMed:9180257}, L-kynurenine hydrolase {ECO:0000255|HAMAP-Rule:MF_03017},

KYNU {ECO:0000255|HAMAP-Rule:MF 03017, ECO:0000312|HGNC:HGNC:6469}

Target/Specificity

Expressed in all tissues tested (heart, brain placenta, lung, liver, skeletal muscle, kidney and pancreas). Highest levels found in placenta, liver and lung. Expressed in all brain regions.

Dilution

IHC-P~~N/A<br \> <span class
="dilution_IHC-F">IHC-F~~N/A<br \> <span class
="dilution_IF">IF~~1:50~200<br \> ICC~~N/A<br \> E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

KYNU Polyclonal Antibody - Protein Information

Name KYNU {ECO:0000255|HAMAP-Rule:MF 03017, ECO:0000312|HGNC:HGNC:6469}

Function

Catalyzes the cleavage of L-kynurenine (L-Kyn) and L-3- hydroxykynurenine (L-3OHKyn) into anthranilic acid (AA) and 3- hydroxyanthranilic acid (3-OHAA), respectively. Has a preference for the L-3-hydroxy form. Also has cysteine-conjugate-beta-lyase activity.

Cellular Location

Cytoplasm, cytosol {ECO:0000255|HAMAP- Rule:MF 03017, ECO:0000269|PubMed:8706755}

Tissue Location

Expressed in all tissues tested (heart, brain placenta, lung, liver, skeletal muscle, kidney and pancreas). Highest levels found in placenta, liver and lung. Expressed in all brain regions.

KYNU Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KYNU Polyclonal Antibody - Images