Data Sheet (Cat.No.TMAY-01247)

TargetMol

Anti-kynureninase/KYNU Antibody (7U502)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7U502
Purification:	Protein A

Applications

Verified Activity:	1. Anti-KYNU rabbit monoclonal antibody at 1:500 dilution. -Lane A: A549 Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary -Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. -Predicted band size:52 kDa. -Observed band size:52 kDa. 2. KYNU-HIS was immunoprecipitated using: -Lane A:0.5 mg A549 Whole Cell Lysate -0.5 µL anti-KYNU-HIS rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose. -Primary antibody: -Anti-KYNU-HIS rabbit monoclonal antibody, at 1:500 dilution. -Secondary antibody: -Clean-Blotô IP Detection Reagent (HRP) at 1:1000 dilution. -Developed using the DAB staining technique. -Performed under reducing conditions. -Predicted band size: 52 kDa. -Observed band size: 52 kDa. 3. Immunofluorescence staining of KYNU in A549 cells. Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human KYNU monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).Positive staining was localized to Cytoplasm.
Application:	ICC/IF,IP,WB
Recommended	WB: 1:500-1:1000; ICC-IF: 1:20-1:100; IP: 0.2-1 µL/mg of lysate

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human KYNU Protein (TMPY-02479)
Antigen Species:	Human
Synonyms:	KYNUU;kynureninase

Research Background

KYNU (Kynureninase) is a Protein Coding gene. KYNU 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. Genetic studies in the mouse and the human suggest that kynureninase activity may influence blood pressure and renal function. The gene coding kynureninase (KYNU) is also located on chromosome band 2q14-q23, where a linkage peak for essential hypertension was previously detected in the Chinese Han population. The results show that the rare KYNU variant Arg188Gln affects kynureninase activity and are consistent with the hypothesis that this mutation can predispose to essential hypertension. Diseases associated with KYNU include Hydroxykynureninuria and Vertebral, Cardiac, Renal, And Limb Defects Syndrome 2.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481