AT1A3 Rabbit pAb

CatalogNo: YN1344

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA

MW
- 111kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol,0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human protein . at AA range: 950-1030
Specificity	AT1A3 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	ATP1A3

Protein Name Sodium/potassium-transporting ATPase subunit alpha-3 (Na(+)/K(+) ATPase alpha-3 subunit) (Na(+)/K(+) ATPase alpha(III) subunit) (Sodium pump subunit alpha-3)

Organism	Gene ID	UniProt ID
Human	478;	P13637;
Mouse		Q6PIC6;
Rat		P06687;

Cellular Localization Cell membrane ; Multi-pass membrane protein .

Tissue specificity Brain,Cerebellum,Heart,Uterus,

Function Catalytic activity:ATP + H(2)O + Na(+)(In) + K(+)(Out) = ADP + phosphate + Na(+)(Out) + K(+)(In).,Disease:Defects in ATP1A3 are the cause of dystonia type 12 (DYT12) [MIM:128235]; also known as rapid-onset dystonia parkinsonism (RDP). DYT12 is an autosomal dominant dystonia-parkinsonism disorder. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures. DYT12 patients develop dystonia and parkinsonism between 15 and 45 years of age. The disesae is characterized by an unusually rapid evolution of signs and symptoms. The sudden onset of symptoms over hours to a few weeks, often associated with physical or emotional stress, suggests a trigger initiating a nervous system insult resulting in permanent neurologic disability.,Function:This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients.,similarity:Belongs to the cation transport ATPase (P-type) family.,similarity:Belongs to the cation transport ATPase (P-type) family. Type IIC subfamily.,subunit:Composed of three subunits: alpha (catalytic), beta and gamma.,

Validation Data

Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: http://www.immunoway.com
Address: 2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
AT1A3 Rabbit pAb