Product Datasheet

AK1 Antibody

Catalog No: #31027

Package Size: #31027-1 50ul #31027-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	AK1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total AK1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 1-194 amino acids of Human Adenylate kinase isoenzyme 1
Target Name	AK1
Other Names	Adenylate kinase isoenzyme 1 ,
Accession No.	Swiss-Prot:P00568Gene ID:203;
Uniprot	P00568
GeneID	203;
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C/1 year

Application Details

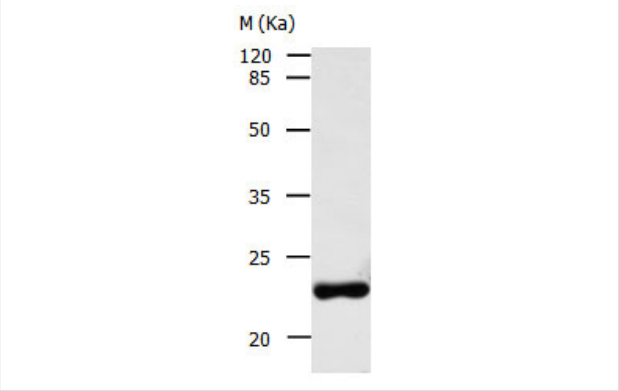
Predicted MW: 22kd

ELISA: 1:2000-1:5000

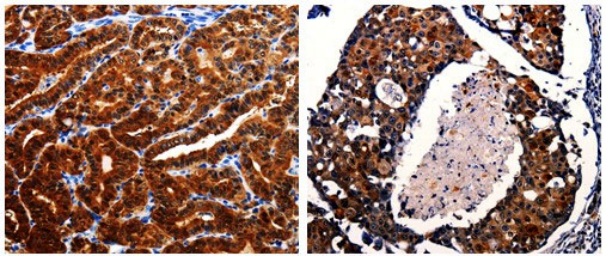
Western blotting: 1:500-1:1000

Immunohistochemistry: 1:25-1:100

Images



Gel: 10%SDS-PAGE
Lysate: 30 µg HT-29 cell lysate
Primary antibody: 1/400 dilution
Secondary antibody: Donkey anti Rabbit IgG - H&L (HRP) at 1/3000 dilution
Exposure time: 2 minutes



The image is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue (left) and Human breast cancer tissue (right) using 31027 (AK1 Antibody) at dilution 1/25.

Background

Adenylate kinase is an enzyme involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate group among adinine nucleotides. Three isozymes of adenylate kinase have been identified in vertebrates, adenylate isozyme 1 (AK1), 2 (AK2) and 3 (AK3). AK1 is found in the cytosol of skeletal muscle, brain and erythrocytes, whereas AK2 and AK3 are found in the mitochondria of other tissues including liver and heart. AK1 was identified because of its association with a rare genetic disorder causing nonspherocytic hemolytic anemia where a mutation in the AK1 gene was found to reduce the catalytic activity of the enzyme.

Note: This product is for in vitro research use only