AMPK alpha1/2 Polyclonal Antibody

catalog number: E-AB-30491

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

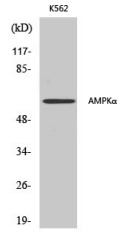
Description

Reactivity	Human;Mouse;Rat;Monkey
Immunogen	Synthesized peptide derived from human AMPKα1/2 around the non-phosphorylation site of Thr183/172.
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Conjugation	Unconjugated
buffer	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 0.5% protein protectant and 50% glycerol.

Applications | Recommended Dilution

WB	1:500-1:2000
IHC	1:100-1:300

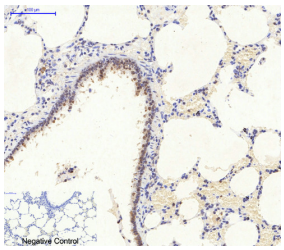
Data



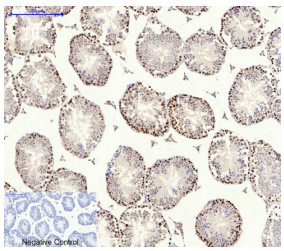
Western Blot analysis of K562 cells using AMPK alpha1/2 Polyclonal Antibody at dilution of 1:500.

Observed-MV:63 kDa

Calculated-MV:62 kDa



Immunohistochemistry of paraffin-embedded Rat lung tissue using AMPK alpha1/2 Polyclonal Antibody at dilution of 1:200.



Immunohistochemistry of paraffin-embedded Mouse testis tissue using AMPK alpha1/2 Polyclonal Antibody at dilution of 1:200.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

Background

For Research Use Only

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AMPK (for 5'-AMP-activated protein kinase) is a heterotrimeric complex comprising a catalytic α subunit and regulatory β and γ subunits. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. AMPK is activated by high AMP and low ATP through a mechanism involving allosteric regulation, promotion of phosphorylation by an upstream protein kinase known as AMPK kinase, and inhibition of dephosphorylation.Activated AMPK can phosphorylate and regulate in vivo hydroxymethylglutaryl-CoA reductase and acetyl-CoA carboxylase, which are key regulatory enzymes of sterol synthesis and fatty acid synthesis, respectively .

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