

Recombinant

DGRmAb®

**AMPK alpha 1 (DGR12278) Rabbit mAb (PBS Only)**

db15794-PBS

Package : 10µg 100µg

**Product Name** : AMPK alpha 1 (DGR12278) Rabbit mAb (PBS Only)**Cat.No.:** db15794-PBS**Synonyms** : AMPK; AMPKa1**Application** : WB, IHC-P, ICC/IF, FC, IP**Reactivity** : Human,Mouse,Rat**Host species** : Rabbit**Background**

The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

**Immunogen**

A synthetic peptide of human AMPK alpha 1

**Gene ID**

5562

**Swiss Prot**

Q13131

**Synonyms**

AMPK; AMPKa1

**Reactivity**

Human,Mouse,Rat

**Application**

WB, IHC-P, ICC/IF, FC, IP

**Calculated MW**

63 kDa

**Observed MW**

63 kDa

**Host species**

Rabbit

**Clonality**

Monoclonal

**Clonality No.**

DGR12278

**Isotype**

IgG

**Purity**

Affinity Purification

**Conjugation**

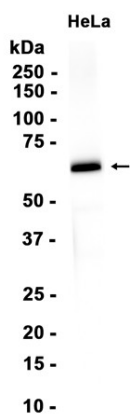
Un-conjugated

**Concentration** 1 mg/mL

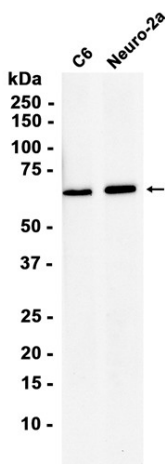
**Formulation** PBS Only

**Storage Stability** Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.

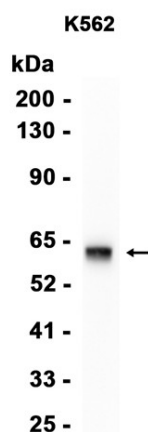
Western blot analysis of extracts from HeLa cells using [db15794](#) at 1:1000.

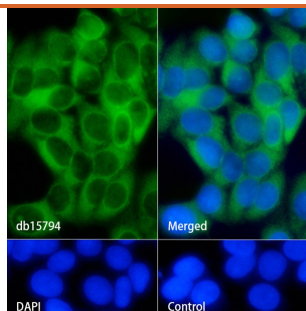


Western blot analysis of extracts from C6, Neuro-2a cells using [db15794](#) at 1:1000.



Western blot analysis of extracts from K562 cells using [db15794](#) at 1:1000.





Immunofluorescence analysis of MCF-7 cells labelling AMPK alpha 1 with [db15794](#).

The cells were fixed with cold 100% methanol (10min, 4°C) and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with [db15794](#) (1:100) at room temperature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 ([db10005](#), shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.