

## Product datasheet for **TA380330**

### AMPK alpha 1 (PRKAA1) Rabbit Polyclonal Antibody

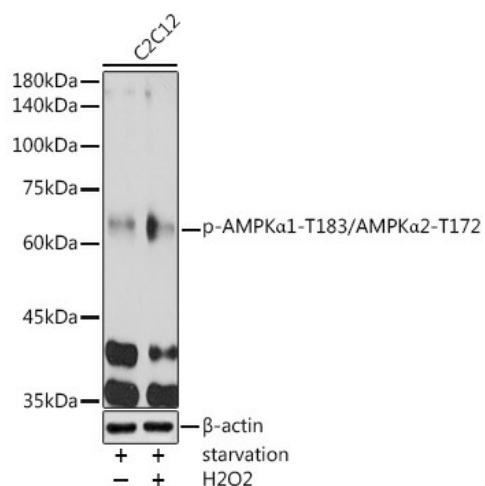
#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	WB,1:500 - 1:2000 IHC,1:50 - 1:100 IP,1:50 - 1:100
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho T183/T172
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A phospho specific peptide corresponding to residues surrounding T172 of human AMPK $\alpha$
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	64kDa/65kDa
Gene Name:	protein kinase AMP-activated catalytic subunit alpha 1
Database Link:	<a href="#">Entrez Gene 5562 Human Q13131</a>
Synonyms:	AMPK; AMPK1; AMPK $\alpha$ 1; MGC33776; MGC57364

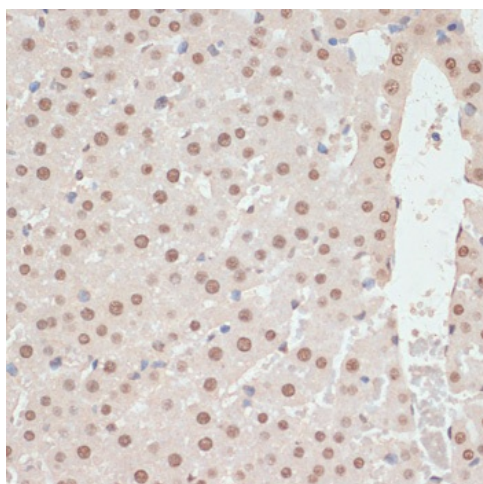


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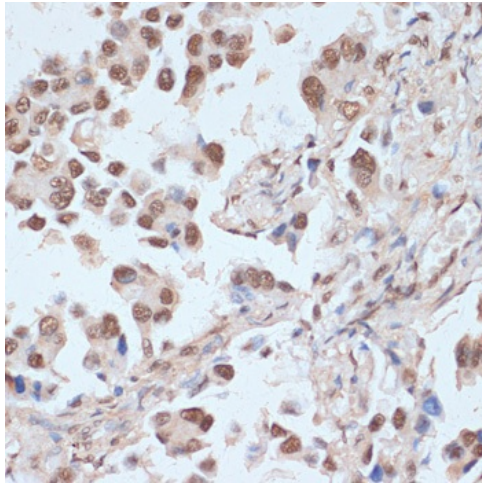
## Product images:



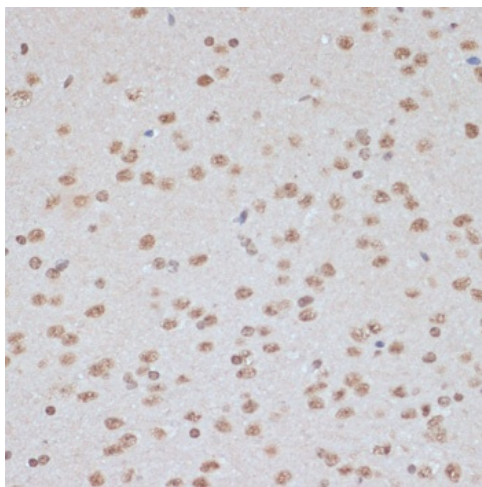
Western blot analysis of extracts of C2C12 cells, using Phospho-AMPKα1-T183/AMPKα2-T172 antibody (TA380330) at 1:1000 dilution. C2C12 cells were treated by Hydrogen Peroxide (2 nM) at 37°C for 15 minutes after serum-starvation overnight. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit. | Exposure time: 180s.



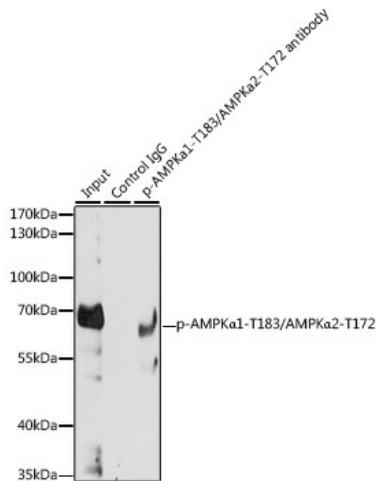
Immunohistochemistry of paraffin-embedded rat liver using Phospho-AMPKα1-T183/AMPKα2-T172 antibody (TA380330) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded human lung cancer using Phospho-AMPKα1-T183/AMPKα2-T172 antibody (TA380330) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded mouse brain using Phospho-AMPKα1-T183/AMPKα2-T172 antibody (TA380330) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation analysis of 200ug extracts of C2C12 cells, using 3 ug Phospho-AMPKα1-T183/AMPKα2-T172 pAb (TA380330). Western blot was performed from the immunoprecipitate using Phospho-AMPKα1-T183/AMPKα2-T172 pAb (TA380330) at a dilution of 1:1000. C2C12 cells were treated by oligomycin (0.5 uM) at 37°C for 30 minutes.