Human Progranulins protein (active)

Cat. No. GTX65641-pro

Applications	Functional Assay
Species	Human

Package
10 µg

Applications

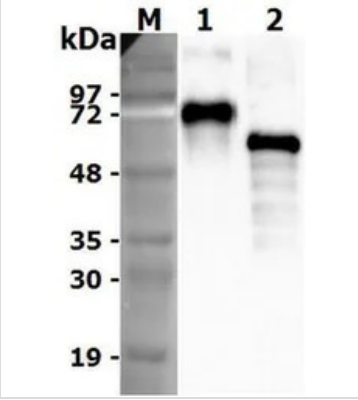
Application Note

Activates phospho-ERK1/2 in neuronal mouse P19 cells. Regulates food intake and body weight.

Properties

Form	Lyophilized powder
Buffer	Reconstitute with 100 µl ddH_2O. Lyophilized from 0.2µm-filtered PBS.
Preservative	No preservatives
Storage	Store at -20ºC or below. After reconstitution, keep as concentrated solution. Aliquot and avoid freeze-thaw cycles.
Region/Sequence	No tagged; Met1-Leu593 of Human Progranulin protein (P28799)
Expression System	HEK293 cells
Purity	??98% by SDS-PAGE.
Endotoxin	< 0.01 EU/µg
Conjugation	Unconjugated
Note	For In vitro laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

DATA IMAGES



GTX65641-pro Image

Deglycosylation of GTX65641-pro Progranulin (human) protein. To examine the deglycosylation of human Progranulin, 1 µg of human progranulin is denatured with 1X glycoprotein denaturing buffer at 100ºC for 10 minutes. After the addition of NP-40 and G7 reaction buffer, two fold dilutions of PNGase F are added and the reaction mix is incubated for 1 hour at 37ºC. Separation of reaction products is visualized by immunoblotting using anti-Progranulin (human) antibody.

For full product information, images and publications, please visit our website.

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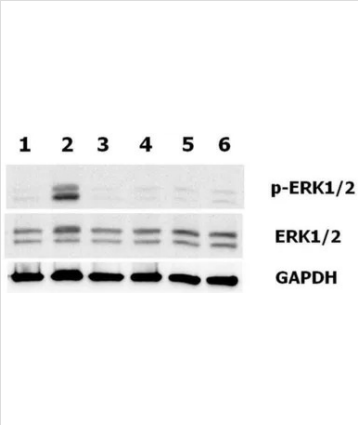

GTX65641-pro Image

The effects on phospho-ERK1/2 and ERK1/2 by GTX65641-pro Progranulin protein in neuronal differentiated mouse P19 cells. Undifferentiated mouse P19 cells were induced to differentiated in 1µM retinoic acid (RA) in α-minimum essential medium (αMEM) containing 10% heat-treated fetal bovine serum on bacterial grade plates for 3~4 days to allow aggregates to form (generation of embryonic bodies). The aggregates were then plated on tissue culture grade plates in the absence of RA for 3~4days. To examine the induction of signal of phospho-ERK1/2 and ERK1/2, reactions were carried out at 37°C over 0, 5, 10, 30, 60, 120mins, respectively by adding the recombinant protein (500ng/ml) to the neuronal differentiated mouse P19 cells, which were maintained with serum starvation for 24hrs. Treatment with Progranulin protein (GTX65641-pro) was performed in lanes 1, 2, 3, 4, 5, and 6 over 0, 5, 10, 30, 60, 120mins, respectively. GAPDH was used as loading control for western blotting.

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