

Anti-Elp4 Antibody [JE61-03]

HA720054



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB
Molecular Wt:	Predicted band size: 47 kDa
Clone number:	JE61-03

Description: Elongation protein 4 homolog (*S. cerevisiae*), also known as ELP4, is a protein which in humans is encoded by the ELP4 gene. This gene encodes a component of the six subunit elongator complex, a histone acetyltransferase complex that associates directly with RNA polymerase II during transcriptional elongation. The human gene can partially complement sensitivity phenotypes of yeast ELP4 deletion mutants. Alternatively spliced variants that encode different protein isoforms have been described but the full-length nature of only one has been determined. In a study published in February 2009, researcher linked this gene to the most common form of human epilepsy, namely Rolandic epilepsy. This is the first gene to be linked with rolandic epilepsy. The Elongator Protein Complex (ELP) is what regulates the growth of cortical projection neurons. This means that it helps cortical neurons to exhibit dendrite branching and radial migration of neurons to form the close knit neural network of the cerebral cortex. If ELP is not working properly or is not being expressed at the correct levels (too low) then the neurons in that region in particular would not be properly situated in relation to each other for proper brain activity. The expression of ELP and the fourth sub-unit (ELP4) in particular is the cause of Rolandic epilepsy and possibly other cognitive impairment later in life if the condition is severe enough or if it is not treated effectively.

Immunogen: Synthetic peptide within human Elp4 aa 313-364/424.

Positive control: HeLa cell lysate, NIH/3T3 cell lysate.

Subcellular location: Nucleus, Cytoplasm.

Database links: SwissProt: Q96EB1 Human | Q9ER73 Mouse

Recommended Dilutions:
WB 1:500-1:2,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

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Images

Fig1: Western blot analysis of Elp4 on different lysates with Rabbit anti-Elp4 antibody (HA720054) at 1/1,000 dilution.

Lane 1: HeLa cell lysate
Lane 2: NIH/3T3 cell lysate

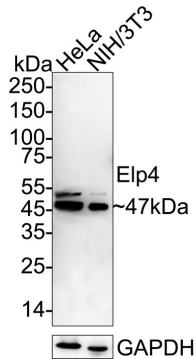
Lysates/proteins at 20 µg/Lane.

Predicted band size: 47 kDa
Observed band size: 47 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA720054) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.



Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Li K. et. al. Association between ELP4 rs986527 polymorphism and the occurrence and development of intracranial arachnoid cyst. Brain Behav. 2019 Dec
2. Addis L. et. al. Microdeletions of ELP4 Are Associated with Language Impairment, Autism Spectrum Disorder, and Mental Retardation. Hum Mutat. 2015 Sep

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