10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-KAT9 / Elp3 Rabbit Monoclonal Antibody
Catalog # ABO14503

Specification

Anti-KAT9 / Elp3 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IF, ICC, IP**
Primary Accession	Q9H9T3
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-KAT9 / Elp3 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.

Anti-KAT9 / Elp3 Rabbit Monoclonal Antibody - Additional Information

Gene ID 55140

Other Names
Elongator complex protein 3, hELP3, 2.3.1.311, ELP3 {ECO:0000303|PubMed:15902492, ECO:0000312|HGNC:HGNC:20696}

Application Details
WB 1:500-1:2000
ICC/IF 1:50-1:200
IP 1:50

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human KAT9 / Elp3.

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-KAT9 / Elp3 Rabbit Monoclonal Antibody - Protein Information

Name ELP3 {ECO:0000303|PubMed:15902492, ECO:0000312|HGNC:HGNC:20696}

Function
Catalytic tRNA acetyltransferase subunit of the elongator complex which is required for multiple

tRNA modifications, including mcm5U (5-methoxycarbonylmethyl uridine), mcm5s2U (5-methoxycarbonylmethyl-2-thiouridine), and ncm5U (5-carbamoylmethyl uridine) (PubMed:29415125). In the elongator complex, acts as a tRNA uridine(34) acetyltransferase by mediating formation of carboxymethyluridine in the wobble base at position 34 in tRNAs (By similarity). May also act as a protein lysine acetyltransferase by mediating acetylation of target proteins; such activity is however unclear in vivo and recent evidences suggest that ELP3 primarily acts as a tRNA acetyltransferase (PubMed:29415125). Involved in neurogenesis: regulates the migration and branching of projection neurons in the developing cerebral cortex, through a process depending on alpha-tubulin acetylation (PubMed:19185337). Required for acetylation of GJA1 in the developing cerebral cortex (By similarity).

Cellular Location
Cytoplasm. Nucleus [Isoform 2]: Cytoplasm. Nucleus

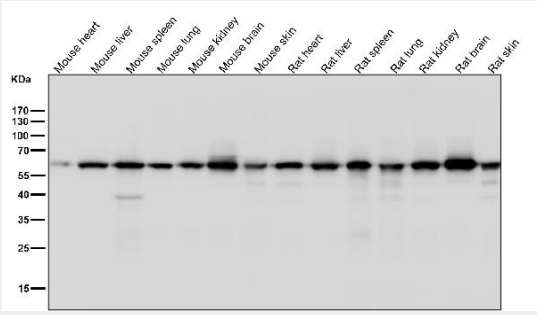
Tissue Location
Expressed in the cerebellum and spinal motor neurons.

Anti-KAT9 / Elp3 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

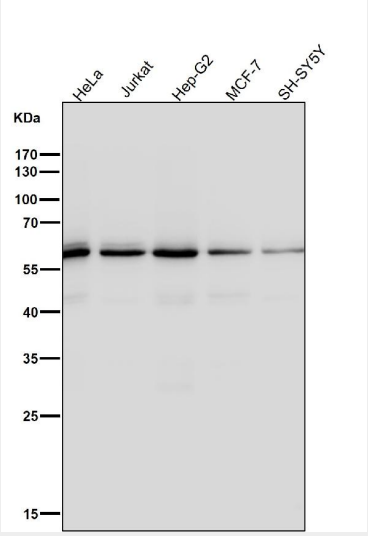
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-KAT9 / Elp3 Rabbit Monoclonal Antibody - Images

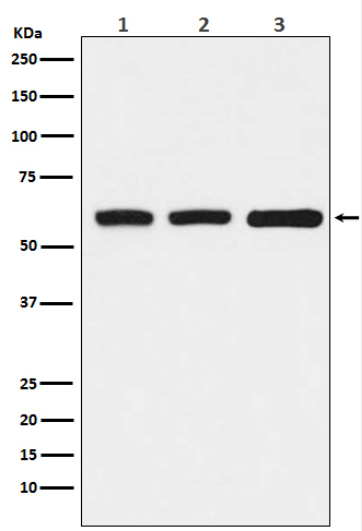


All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



Western blot analysis of KAT9 / Elp3 expression in (1) HeLa cell lysate; (2) RAW264.7 cell lysate; (3) Rat kidney lysate.