

# ALKBH4 Rabbit mAb

Catalog # AP75056

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IP                 |
| Primary Accession | <a href="#">Q9NXW9</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Monoclonal Antibody    |
| Isotype           | IgG                    |
| Conjugate         | Unconjugated           |
| Purification      | Affinity Purified      |
| Calculated MW     | 33838                  |

## Additional Information

|             |                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------|
| Gene ID     | 54784                                                                                           |
| Other Names | ALKBH4                                                                                          |
| Dilution    | WB~~1:500-1:1000 IP~~1:20-1:50                                                                  |
| Format      | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| Storage     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.        |

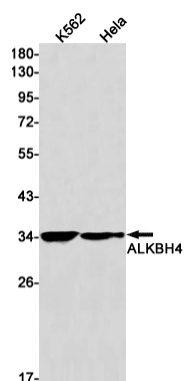
## Protein Information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | ALKBH4 {ECO:0000303 PubMed:21166655, ECO:0000312 HGNC:HGNC:21900}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Function          | Dioxygenase that mediates demethylation of actin monomethylated at 'Lys-84' (K84me1), thereby acting as a regulator of actomyosin-processes (PubMed: <a href="#">23673617</a> ). Demethylation of actin K84me1 is required for maintaining actomyosin dynamics supporting normal cleavage furrow ingression during cytokinesis and cell migration (PubMed: <a href="#">23673617</a> ). In addition to proteins, also demethylates DNA: specifically demethylates DNA methylated on the 6th position of adenine (N(6)-methyladenosine) DNA, thereby regulating Polycomb silencing (By similarity). |
| Cellular Location | Cytoplasm. Nucleus. Nucleus, nucleolus {ECO:0000250 UniProtKB:Q9D8F1}. Midbody. Note=Associates with the contractile ring and midbody.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tissue Location   | Widely expressed, with highest expression in pancreas, ovary and spleen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

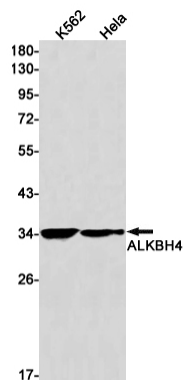
## Background

Dioxygenase that mediates demethylation of actin monomethylated at 'Lys-84' (K84me1), thereby acting as a regulator of actomyosin-processes. Demethylation of actin K84me1 is required for maintaining actomyosin dynamics supporting normal cleavage furrow ingression during cytokinesis and cell migration. May be involved in transcription regulation.

## Images



Western blot analysis of ALKBH4 in K562, HeLa lysates using ALKBH4 antibody.



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