

## ARG42981 anti-ALKBH4 antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes ALKBH4  |
| Tested Reactivity   | Hu  |
| Tested Application  | IP, WB  |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | ALKBH4  |
| Species             | Human   |
| Immunogen           | Recombinant protein of Human ALKBH4.  |
| Conjugation         | Un-conjugated   |
| Alternate Names     | ABH4; Alpha-ketoglutarate-dependent dioxygenase alkB homolog 4; Alkylated DNA repair protein alkB homolog 4; EC 1.14.11.- |

### Application Instructions

| Application table | Application  | Dilution |
|-------------------|--|----------|
|                   | IP   | 1:20     |
|                   | WB   | 1:1000   |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |          |
| Positive Control  | K562   |          |
| Observed Size     | ~ 34 kDa   |          |

### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purified.  |
| Buffer              | 50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.   |
| Preservative        | 0.01% Sodium azide  |
| Stabilizer          | 40% Glycerol and 0.05% BSA  |
| Concentration       | Batch dependent   |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

**Note**

For laboratory research only, not for drug, diagnostic or other use.

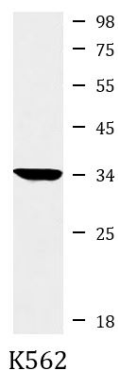
## Bioinformation

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|                       |   |
|-----------------------|---|
| Gene Symbol           | ALKBH4  |
| Gene Full Name        | alkB homolog 4, lysine demethylase  |
| Function              | Dioxygenase that mediates demethylation of actin monomethylated at 'Lys-84' (K84me1), thereby acting as a regulator of actomyosin-processes (PubMed:23673617). Demethylation of actin K84me1 is required for maintaining actomyosin dynamics supporting normal cleavage furrow ingression during cytokinesis and cell migration (PubMed:23673617). 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). [UniProt] |
| Calculated Mw         | 34 kDa  |
| Cellular Localization | Cytoplasm. Nucleus. Midbody. Note=Associates with the contractile ring and midbody. [UniProt]   |

## Images

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ARG42981 anti-ALKBH4 antibody WB image

Western blot: K562 cell lysate stained with ARG42981 anti-ALKBH4 antibody at 1:1000 dilution.