

ALK Antibody

Rabbit mAb Catalog # AP92083

## **Product Information**

| Application       | IHC, IF, ICC, IHF   |  |
|-------------------|---|--|
| Primary Accession | <u>Q9UM73</u>   |  |
| Reactivity        | Rat, Human, Mouse   |  |
| Clonality         | Monoclonal  |  |
| Other Names       | ALK tyrosine kinase receptor; Nucleophosmin; NPM1; ALK; NPM-ALK |  |
| Isotype           | Rabbit IgG  |  |
| Host              | Rabbit  |  |
| Calculated MW     | 176442  |  |

## **Additional Information**

| Dilution                     | IHC 1:100~1:500 ICC/IF 1:50~1:100  |
|------------------------------|--|
| Purification                 | Affinity-chromatography  |
| Immunogen                    | A synthesized peptide derived from human ALK   |
| Description                  | Involved in diverse cellular processes such as ribosome biogenesis,  |
| Storage Condition and Buffer | centrosome duplication, protein chaperoning, histone assembly, cell<br>proliferation, and regulation of tumor suppressors p53/TP53 and ARF. Binds<br>ribosome presumably to drive ribosome nuclear export. Associated with<br>nucleolar ribonucleoprotein structures and bind single-stranded nucleic acids. |

## **Protein Information**

| Name     | ALK {ECO:0000303 PubMed:9174053, ECO:0000312 HGNC:HGNC:427}   |
|----------|---|
| Function | Neuronal receptor tyrosine kinase that is essentially and transiently<br>expressed in specific regions of the central and peripheral nervous systems<br>and plays an important role in the genesis and differentiation of the nervous<br>system (PubMed: <u>11121404</u> , PubMed: <u>11387242</u> , PubMed: <u>16317043</u> ,<br>PubMed: <u>17274988</u> , PubMed: <u>30061385</u> , PubMed: <u>34646012</u> ,<br>PubMed: <u>34819673</u> ). Also acts as a key thinness protein involved in the<br>resistance to weight gain: in hypothalamic neurons, controls energy<br>expenditure acting as a negative regulator of white adipose tissue lipolysis<br>and sympathetic tone to fine-tune energy homeostasis (By similarity).<br>Following activation by ALKAL2 ligand at the cell surface, transduces an<br>extracellular signal into an intracellular response (PubMed: <u>30061385</u> ,<br>PubMed: <u>33411331</u> , PubMed: <u>34646012</u> , PubMed: <u>34819673</u> ). In contrast,<br>ALKAL1 is not a potent physiological ligand for ALK (PubMed: <u>34646012</u> ).<br>Ligand-binding to the extracellular domain induces tyrosine kinase activation, |

| Image not found : 202311/AP92083-IHC.jpg | Immunohistochemical analysis of paraffin-embedded |
|--|---|
|  | human kidney, using ALK Antibody.                 |

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