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Datasheet for ABIN7169193

anti-TAO Kinase 2 antibody (AA 719-880) (FITC)

Overview

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|----------------------|--|
| Quantity: | 100 µg |
| Target: | TAO Kinase 2 (TAOK2) |
| Binding Specificity: | AA 719-880 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TAO Kinase 2 antibody is conjugated to FITC |
| Application: | Please inquire |

Product Details

| | |
|-------------------|--|
| Immunogen: | Recombinant Human Serine/threonine-protein kinase TAO2 protein (719-880AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

Target Details

| | |
|-------------------|--|
| Target: | TAO Kinase 2 (TAOK2) |
| Alternative Name: | TAOK2 (TAOK2 Products) |
| Background: | Background: Serine/threonine-protein kinase involved in different processes such as membrane blebbing and apoptotic bodies formation DNA damage response and MAPK14/p38 MAPK |

Target Details

stress-activated MAPK cascade. Phosphorylates itself, MBP, activated MAPK8, MAP2K3, MAP2K6 and tubulins. Activates the MAPK14/p38 MAPK signaling pathway through the specific activation and phosphorylation of the upstream MAP2K3 and MAP2K6 kinases. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of upstream MAP2K3 and MAP2K6 kinases. Isoform 1, but not isoform 2, plays a role in apoptotic morphological changes, including cell contraction, membrane blebbing and apoptotic bodies formation. This function, which requires the activation of MAPK8/JNK and nuclear localization of C-terminally truncated isoform 1, may be linked to the mitochondrial CASP9-associated death pathway. Isoform 1 binds to microtubules and affects their organization and stability independently of its kinase activity. Prevents MAP3K7-mediated activation of CHUK, and thus NF-kappa-B activation, but not that of MAPK8/JNK. May play a role in the osmotic stress-MAPK8 pathway. Isoform 2, but not isoform 1, is required for PCDH8 endocytosis. Following homophilic interactions between PCDH8 extracellular domains, isoform 2 phosphorylates and activates MAPK14/p38 MAPK which in turn phosphorylates isoform 2. This process leads to PCDH8 endocytosis and CDH2 cointernalization. Both isoforms are involved in MAPK14 phosphorylation.

Aliases: 1110033K02Rik antibody, B230344N16 antibody, hKFC C antibody, hKFC-C antibody, KIAA0881 antibody, Kinase from chicken homolog C antibody, MAP3K17 antibody, mKIAA0881 antibody, Prostate derived STE20 like kinase 1 antibody, Prostate derived STE20 like kinase PSK antibody, Prostate derived sterile 20 like kinase 1 antibody, Prostate-derived STE20-like kinase 1 antibody, PSK 1 antibody, PSK antibody, PSK-1 antibody, PSK1 antibody, PSK1 beta antibody, Serine/threonine protein kinase TAO2 antibody, Serine/threonine-protein kinase TAO2 antibody, TAO 1 antibody, TAO 2 antibody, TAO kinase 2 antibody, TAO1 antibody, TAO2 antibody, TAOK 2 antibody, Taok2 antibody, TAOK2_HUMAN antibody, Thousand and one amino acid protein 2 antibody, Thousand and one amino acid protein kinase antibody, UNQ2971/PRO7431 antibody

UniProt: [Q9UL54](#)

Pathways: [Cell-Cell Junction Organization](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Handling

| | |
|--------------------|---|
| Buffer: | Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4 |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |