

Anti-PBK/TOPK Antibody (40108)

Product Details

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| Ig Type: | Mouse IgG1 |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 40108 |
| Purification: | Protein A |

Applications

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| | <p>Anti-PBK mouse monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none"> -Lane A: SW480 Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary |
| Verified Activity: | <p>-Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.</p> <ul style="list-style-type: none"> -Developed using the Odyssey technique. -Performed under reducing conditions. -Predicted band size:36 kDa. -Observed band size:38 kDa |
| Application: | ELISA,ELISA(Det),WB |
| Recommended | WB: 1:500-1:1000; ELISA: 1:5000-1:10000; ELISA(Det): 1:5000-1:50000 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | Recombinant Protein: Human PBK protein (TMPY-04547) |
| Antigen Species: | Human |
| Synonyms: | HEL164;CT84;SPK;TOPK;PDZ binding kinase;Nori-3 |

Research Background

PDZ binding kinase (PBK), also known as TOPK (T-LAK cell-originated protein kinase), is a serine/threonine kinase related to the dual specific mitogen-activated protein kinase kinase (MAPKK) family, and has all the characteristic protein kinase subdomains and a C-terminal PDZ-binding T/SXV motif. PBK is expressed in the testis restrictedly expressed in outer cell layer of seminiferous tubules, as well as placenta. PBK may be enrolled in the activation of lymphoid cells and support testicular functions, with a suggested role in the process of spermatogenesis. This mitotic kinase phosphorylates MAP kinase p38 and seems to be active in mitosis. When phosphorylated, PBK forms a protein-protein interaction with tumor suppressor p53 (TP53), leading to TP53 destabilization and attenuation of G2/M checkpoint during doxorubicin-induced DNA damage. The expression level of PBK is thus upregulated in a variety of neoplasms including hematological malignancies.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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