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# Mouse Stk38 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19186B

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q91VJ4 |
| **Other Accession** | Q15208, A2VDV2, NP_598876.1 |
| **Reactivity** | Mouse |
| **Predicted** | Bovine, Human, Rat, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB39833 |
| **Calculated MW** | 54174 |
| **Antigen Region** | 429-458 |

## Additional Information

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| **Gene ID** | 106504 |
| **Other Names** | Serine/threonine-protein kinase 38, NDR1 protein kinase, Nuclear Dbf2-related kinase 1, Stk38 {ECO:0000312\|EMBL:AAH096581} |
| **Target/Specificity** | This Mouse Stk38 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 429-458 amino acids from the C-terminal region of mouse Stk38. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | Mouse Stk38 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | Stk38 {ECO:0000312\|EMBL:AAH09658.1} |
| **Function** | Serine/threonine-protein kinase that acts as a negative regulator of MAP3K1/2 signaling (PubMed:21730291). Converts MAP3K2 from its |

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| | phosphorylated form to its non-phosphorylated form and inhibits autophosphorylation of MAP3K2 (By similarity). Acts as an ufmylation 'reader' in a kinase-independent manner: specifically recognizes and binds mono-ufmylated histone H4 in response to DNA damage, promoting the recruitment of SUV39H1 to the double-strand breaks, resulting in ATM activation (By similarity). |
| **Cellular Location** | Nucleus {ECO:0000250\|UniProtKB:Q15208}. Cytoplasm {ECO:0000250\|UniProtKB:Q15208}. Chromosome {ECO:0000250\|UniProtKB:Q15208}. Note=Localizes to DNA double-strand breaks in response to DNA damage. {ECO:0000250\|UniProtKB:Q15208} |
| **Tissue Location** | Expressed at high levels in spleen, lung, thymus, brain and fat tissue. |

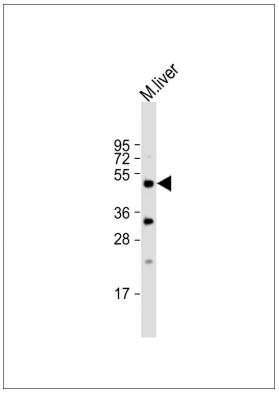
## Background

Negative regulator of MAP3K1/2 signaling. Converts MAP3K2 from its phosphorylated form to its nonphosphorylated form and inhibits autophosphorylation of MAP3K2 (By similarity).

## References

Cornils, H., et al. Sci Signal 3 (126), RA47 (2010) :
Stegert, M.R., et al. J. Biol. Chem. 279(22):23806-23812(2004)
Stryke, D., et al. Nucleic Acids Res. 31(1):278-281(2003)

## Images




Anti-Mouse Stk38 Antibody (C-term) at 1:1000 dilution + mouse liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 54 kDa Blocking/Dilution buffer: 5% NFDM/TBST.