antibodies

Datasheet for ABIN7158991 anti-MAPKAP Kinase 3 antibody (AA 1-240)



3

Images

| Overview | |
|----------------------|--|
| Quantity: | 100 μL |
| Target: | MAPKAP Kinase 3 (MAPKAPK3) |
| Binding Specificity: | AA 1-240 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This MAPKAP Kinase 3 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), ELISA |

Product Details

| Immunogen: | Recombinant Human MAP kinase-activated protein kinase 3 protein (1-240AA) |
|-------------------|---|
| Isotype: | lgG |
| Cross-Reactivity: | Human |
| Purification: | Antigen Affinity Purified |

Target Details

| Target: | MAPKAP Kinase 3 (MAPKAPK3) |
|-------------------|--|
| Alternative Name: | MAPKAPK3 (MAPKAPK3 Products) |
| Background: | Background: Stress-activated serine/threonine-protein kinase involved in cytokines production, |
| | endocytosis, cell migration, chromatin remodeling and transcriptional regulation. Following |

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| stress, it is phosphorylated and activated by MAP kinase p38-alpha/MAPK14, leading to | | |
|--|--|--|
| phosphorylation of substrates. Phosphorylates serine in the peptide sequence, Hyd-X-R-X(2)-S, | | |
| where Hyd is a large hydrophobic residue. MAPKAPK2 and MAPKAPK3, share the same | | |
| function and substrate specificity, but MAPKAPK3 kinase activity and level in protein expression | | |
| are lower compared to MAPKAPK2. Phosphorylates HSP27/HSPB1, KRT18, KRT20, RCSD1, | | |
| RPS6KA3, TAB3 and TTP/ZFP36. Mediates phosphorylation of HSP27/HSPB1 in response to | | |
| stress, leading to dissociate HSP27/HSPB1 from large small heat-shock protein (sHsps) | | |
| oligomers and impair their chaperone activities and ability to protect against oxidative stress | | |
| effectively. Involved in inflammatory response by regulating tumor necrosis factor (TNF) and | | |
| IL6 production post-transcriptionally: acts by phosphorylating AU-rich elements (AREs)-binding | | |
| proteins, such as TTP/ZFP36, leading to regulate the stability and translation of TNF and IL6 | | |
| mRNAs. Phosphorylation of TTP/ZFP36, a major post-transcriptional regulator of TNF, | | |
| promotes its binding to 14-3-3 proteins and reduces its ARE mRNA affinity leading to inhibition | | |
| of dependent degradation of ARE-containing transcript. Involved in toll-like receptor signaling | | |
| pathway (TLR) in dendritic cells: required for acute TLR-induced macropinocytosis by | | |
| phosphorylating and activating RPS6KA3. Also acts as a modulator of Polycomb-mediated | | |
| repression. | | |

Aliases: 3pK antibody, anti MAPKAPK3 antibody, Chromosome 3p kinase antibody, EC 2.7.11.1 antibody, MAP kinase-activated protein kinase 3 antibody, MAPK activated protein kinase 3 antibody, MAPK-activated protein kinase 3 antibody, MAPK3_HUMAN antibody, MAPKAP antibody, MAPKAP kinase 3 antibody, MAPKAP-K3 antibody, MAPKAP3 antibody, MAPKAPK 3 antibody, MAPKAPK-3 antibody, Mapkapk3 antibody, MAPKAPK3 antibody antibody, Mitogen activated protein kinase activated protein kinase 3 antibody, Mitogen activated protein kinase activated protein kinase antibody, MK-3 antibody

| UniProt: | Q16644 |
|-----------|---|
| Pathways: | MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll- |
| | Like Receptors Cascades |

Application Details

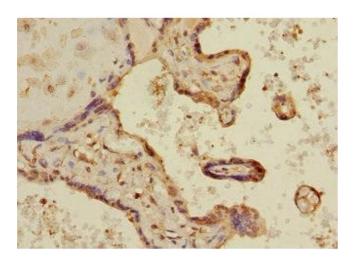
| Application Notes: | Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200, |
|--------------------|---|
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Liquid |
| | |

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Handling

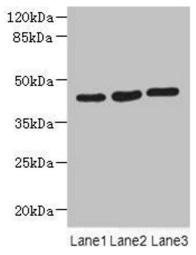
| Buffer: | PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3. |
|--------------------|--|
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human placenta tissue using ABIN7158991 at dilution of 1:100



Western Blotting

Image 2. Western blot All lanes: MAPKAPK3 antibody at 4.4 µg/mL Lane 1: Hela whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: MCF-7 whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 43 kDa Observed band size: 43 kDa

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Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human skeletal muscle tissue using ABIN7158991 at dilution of 1:100

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