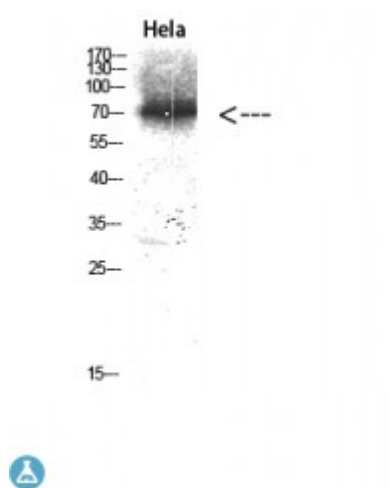


## Anti-ERK 3 antibody



|                           |                                                                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>        | Rabbit polyclonal to ERK 3.                                                                                                                          |
| <b>Model</b>              | STJ92993                                                                                                                                             |
| <b>Host</b>               | Rabbit                                                                                                                                               |
| <b>Reactivity</b>         | Human, Mouse, Rat                                                                                                                                    |
| <b>Applications</b>       | ELISA, IF, IHC, WB                                                                                                                                   |
| <b>Immunogen</b>          | Synthesized peptide derived from human ERK 3                                                                                                         |
| <b>Immunogen Region</b>   | 430-510 aa, Internal                                                                                                                                 |
| <b>Gene ID</b>            | <a href="#">5597</a>                                                                                                                                 |
| <b>Gene Symbol</b>        | <a href="#">MAPK6</a>                                                                                                                                |
| <b>Dilution range</b>     | WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:10000                                                                                           |
| <b>Specificity</b>        | ERK 3 Polyclonal Antibody detects endogenous levels of ERK 3 protein.                                                                                |
| <b>Tissue Specificity</b> | Highest expression in the skeletal muscle, followed by the brain. Also found in heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts. |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                |
| <b>Note</b>               | For Research Use Only (RUO).                                                                                                                         |
| <b>Protein Name</b>       | Mitogen-activated protein kinase 6 MAP kinase 6 MAPK 6 Extracellular signal-regulated kinase 3 ERK-3 MAP kinase isoform p97 p97-MAPK                 |
| <b>Molecular Weight</b>   | 85 kDa                                                                                                                                               |
| <b>Clonality</b>          | Polyclonal                                                                                                                                           |

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conjugation</b>                      | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Isotype</b>                          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Formulation</b>                      | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Concentration</b>                    | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage Instruction</b>              | Store at -20°C, and avoid repeat freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Database Links</b>                   | <a href="https://www.ncbi.nlm.nih.gov/Protein/68790">HGNC:68790</a> <a href="https://www.ncbi.nlm.nih.gov/Protein/MIM:602904">MIM:602904</a>                                                                                                                                                                                                                                                                                                                      |
| <b>Alternative Names</b>                | Mitogen-activated protein kinase 6 MAP kinase 6 MAPK 6 Extracellular signal-regulated kinase 3 ERK-3 MAP kinase isoform p97 p97-MAPK                                                                                                                                                                                                                                                                                                                              |
| <b>Function</b>                         | Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon interaction with atypical MAPKAPK5, ERK3/MAPK6 is phosphorylated at Ser-189 and then mediates phosphorylation and activation of MAPKAPK5, which in turn phosphorylates ERK3/MAPK6. May promote entry in the cell cycle . |
| <b>Sequence and Domain Family</b>       | In contrast to classical MAPKs, the TXY motif within the activation loop is replaced by the SEG motif, whose phosphorylation activates the MAP kinases.                                                                                                                                                                                                                                                                                                           |
| <b>Cellular Localization</b>            | Cytoplasm Nucleus. Translocates to the cytoplasm following interaction with MAPKAPK5.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Post-translational Modifications</b> | Phosphorylated at Ser-189 by PAK1, PAK2 and PAK3 resulting in catalytic activation. Phosphorylated by MAPKAPK5 at other sites. Ubiquitination at Met-1 leads to degradation by the proteasome pathway.                                                                                                                                                                                                                                                            |