

## Mouse pERK ELISA Kit | pERK elisa kit

Mouse pERK (Phospho-Extracellular Signal-Regulated Kinase) ELISA Kit

CATALOG #  
**AAA21399**

REACTIVITY  
**Mouse**

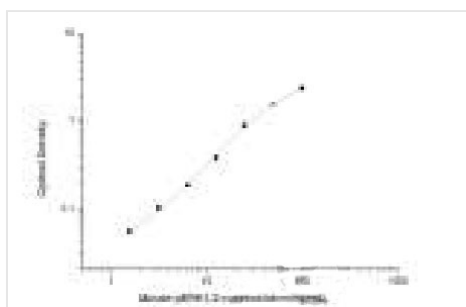
### PRODUCT SYNONYMS

pERK; Mouse pERK (Phospho-Extracellular Signal-Regulated Kinase) ELISA Kit; pERK elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                      |
| Specificity             | This kit recognizes Mouse pERK1/2 in samples. No significant cross-reactivity or interference between Mouse pERK1/2 and analogues was observed                                             |
| Sequence Length         | 888                                                                                                                                                                                        |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                      |
| Samples                 | Serum, plasma and other biological fluids                                                                                                                                                  |
| Detection Range         | 1.56-100 ng/mL                                                                                                                                                                             |
| Sensitivity             | 0.94 ng/mL                                                                                                                                                                                 |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, mid range and high level Mouse pERK1/2 were tested 20 times on one plate, respectively.                             |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, mid range and high level Mouse pERK1/2 were tested on 3 different plates, 20 replicates in each plate, respectively. |
| Preparation and Storage | Store at 4 degree C.                                                                                                                                                                       |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Related Product Information for pERK elisa kit | <p>Principle of the Assay: This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Mouse pERK1/2. Samples (or Standards) are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Mouse pERK1/2 and Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Mouse pERK1/2, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 ± 2 nm. The OD value is proportional to the concentration of Mouse pERK1/2. You can calculate the concentration of Mouse pERK1/2 in the samples by comparing the OD of the samples to the standard curve.</p> <p>Intended Uses: This ELISA kit applies to the in vitro quantitative determination of Mouse pERK1/2 concentrations in serum, plasma and other biological fluids.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 530368295                                                                                                                                                                                         |
| NCBI GeneID                      | 9451                                                                                                                                                                                              |
| NCBI Accession #                 | XP_005264706.1                                                                                                                                                                                    |
| NCBI GenBank Nucleotide #        | XM_005264649.2                                                                                                                                                                                    |
| UniProt Accession #              | Q9NZJ5; O95846; Q53QY0; Q53SB1; A0AVH1; A0AVH2; B2RCU9                                                                                                                                            |
| Molecular Weight                 | 125,216 Da                                                                                                                                                                                        |
| NCBI Official Full Name          | eukaryotic translation initiation factor 2-alpha kinase 3 isoform X1                                                                                                                              |
| NCBI Official Synonym Full Names | eukaryotic translation initiation factor 2-alpha kinase 3                                                                                                                                         |
| NCBI Official Symbol             | EIF2AK3                                                                                                                                                                                           |
| NCBI Official Synonym Symbols    | PEK; WRS; PERK                                                                                                                                                                                    |
| NCBI Protein Information         | eukaryotic translation initiation factor 2-alpha kinase 3; PRKR-like endoplasmic reticulum kinase; eukaryotic translation initiation factor 2 alpha kinase 3; hsPEK; pancreatic EIF2-alpha kinase |
| UniProt Protein Name             | Eukaryotic translation initiation factor 2-alpha kinase 3                                                                                                                                         |
| UniProt Gene Name                | EIF2AK3                                                                                                                                                                                           |
| UniProt Synonym Gene Names       | PEK; PERK; HsPEK                                                                                                                                                                                  |
| UniProt Entry Name               | E2AK3_HUMAN                                                                                                                                                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.