

## Mouse PTPRE Monoclonal Antibody | anti-PTPRE antibody

PTPRE antibody

|                               |                      |                                                                                           |
|-------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA106607</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|-------------------------------------------------------------------------------------------|

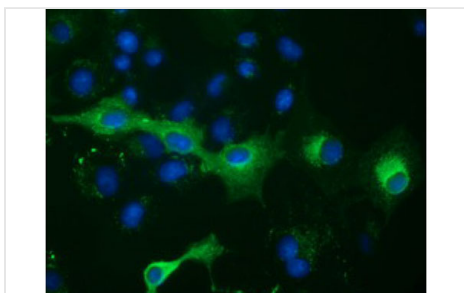
### PRODUCT SYNONYMS

PTPRE; Monoclonal Antibody; PTPRE antibody; Monoclonal PTPRE; Anti-PTPRE; Protein Tyrosine Phosphatase Receptor Type E; DKFZp313F1310; HPTPE; PTPE; R-PTP-EPSILON; anti-PTPRE antibody

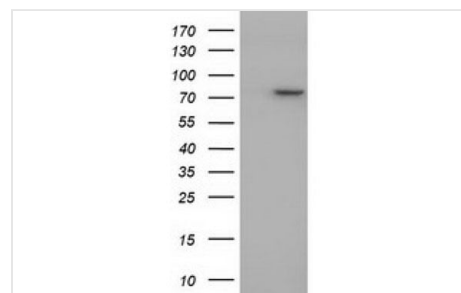
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Isotype                                         | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clone Number                                    | 4G2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity/Purification                             | PTPRE antibody was purified by affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Form/Format                                     | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                |
| Concentration                                   | 0.63mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sequence Length                                 | 700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-PTPRE antibody | WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cross-Reactivity                                | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Immunogen                                       | Full length human recombinant protein of human PTPRE produced in HEK293T cell.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Biological Significance                         | PTPRE is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Two alternatively spliced transcript variants of this gene have been reported, one of which encodes a receptor-type PTP that possesses a short extracellular domain, a single transmembrane region, and two tandem intracytoplasmic catalytic domains. |
| Preparation and Storage                         | Ships on blue ice. Upon receipt store at -20°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

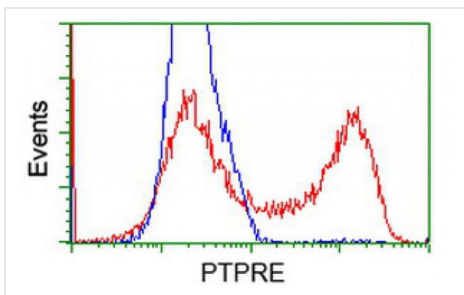
### IMAGES


**IF (Immunofluorescence)**

Immunofluorescent staining of COS7 cells transiently transfected with recombinant PTPRE protein using PTPRE antibody


**WB (Western Blot)**

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant PTPRE protein (Right) or empty vector (Left) detected with PTPRE antibody



**FCM/FACS (Flow Cytometry)**  
Flow Cytometric analysis of HEK293T cells transfected with either recombinant PTPRE protein (red) or empty vector (blue) stained using PTPRE antibody

### ADDITIONAL INFORMATION

|                                                     |                                     |
|-----------------------------------------------------|-------------------------------------|
| Related Product Information for anti-PTPRE antibody | Mouse monoclonal PTPRE antibody     |
| Product Categories/Family for anti-PTPRE antibody   | <a href="#">Signal Transduction</a> |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">5729993</a>                                                                                                    |
| NCBI GeneID                      | <a href="#">5791</a>                                                                                                       |
| NCBI Accession #                 | <a href="#">NP_006495</a>                                                                                                  |
| NCBI GenBank Nucleotide #        | <a href="#">NM_006504.4</a>                                                                                                |
| UniProt Accession #              | <a href="#">P23469</a> ; <a href="#">Q13345</a> ; <a href="#">Q5VWH3</a> ; <a href="#">Q5VWH4</a> ; <a href="#">Q96KQ6</a> |
| NCBI Official Full Name          | receptor-type tyrosine-protein phosphatase epsilon isoform 1                                                               |
| NCBI Official Synonym Full Names | protein tyrosine phosphatase, receptor type, E                                                                             |
| NCBI Official Symbol             | PTPRE                                                                                                                      |
| NCBI Official Synonym Symbols    | PTPE; HPTPE; R-PTP-EPSILON                                                                                                 |
| NCBI Protein Information         | receptor-type tyrosine-protein phosphatase epsilon                                                                         |
| UniProt Protein Name             | Receptor-type tyrosine-protein phosphatase epsilon                                                                         |
| UniProt Gene Name                | <b>PTPRE</b>                                                                                                               |
| UniProt Synonym Gene Names       | Protein-tyrosine phosphatase epsilon; R-PTP-epsilon                                                                        |
| UniProt Entry Name               | PTPRE_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.