# Brk (Phospho Tyr447) Rabbit pAb

CatalogNo: YP0537 Orthogonal Validated

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IF,ELISA

MW
- 50kD (Observed)

Isotype
- IgG

## Storage

| | |
|---|---|
| **Storage*** | -15°C to -25°C/1 year (Do not lower than -25°C) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |

## Recommended Dilution Ratios

**WB 1:500-1:2000**
**IF 1:200-1:1000**
**ELISA 1:5000**
**Not yet tested in other applications.**

## Basic Information

| | |
|---|---|
| **Clonality** | Polyclonal |

## Immunogen Information

| | |
|---|---|
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human Breast Tumor Kinase around the phosphorylation site of Tyr447. AA range:402-451 |

| | |
|---|---|
| **Specificity** | Phospho-Brk (Y447) Polyclonal Antibody detects endogenous levels of Brk protein only when phosphorylated at Y447.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):TSyEN |

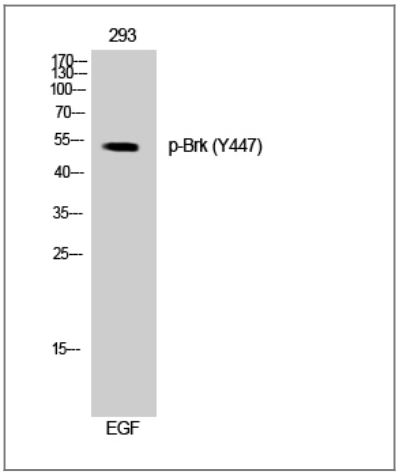
## Target Information

| | |
|---|---|
| **Gene name** | PTK6 |
| **Protein Name** | Protein-tyrosine kinase 6 |

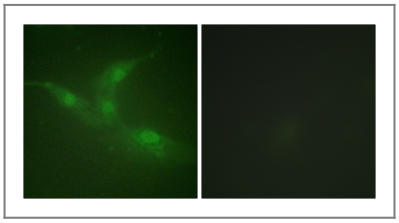
| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 5753; | Q13882; |
| Mouse | 20459; | Q64434; |

| | |
|---|---|
| **Cellular Localization** | Cytoplasm. Nucleus. Cell projection , ruffle. Membrane . Colocalizes with KHDRBS1 , KHDRBS2 or KHDRBS3 , within the nucleus. Nuclear localization in epithelial cells of normal prostate but cytoplasmic localization in cancer prostate. |
| **Tissue specificity** | Epithelia-specific. Very high level in colon and high levels in small intestine and prostate , and low levels in some fetal tissues. Not expressed in breast or ovarian tissue but expressed in high percentage of breast and ovarian cancers. Also overexpressed in some metastatic melanomas , lymphomas , colon cancers , squamous cell carcinomas and prostate cancers. Also found in melanocytes. Not expressed in heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. Isoform 2 is present in prostate epithelial cell lines derived from normal prostate and prostate adenocarcinomas , as well as in a variety of cell lines. |
| **Function** | Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. ,enzyme regulation:Activated enzyme seems to have greater access to its substrates. ,Function:Phosphorylates KHDRBS1 , KHDRBS2 , KHDRBS3 and STAP2/BKS. May function as an intracellular signal transducer in epithelial tissues. Overexpression in mammary cells leads to mitogenically sensitization to EGF , and results in a partially transformed phenotype. Its presence in the nucleus appears to be linked to suppression of tumor progression. ,PTM:Autophosphorylated. The phosphorylation of Tyr-447 may lead to the autoinhibition of the enzyme. ,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. BRK/PTK6/SIK subfamily. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 1 SH2 domain. ,similarity:Contains 1 SH3 domain. ,subcellular location:Colocalizes with KHDRBS1 , KHDRBS2 or KHDRBS3 , within the nucleus. In secretory epithelial cells from prostate adenocarcinoma , nuclear localization is higher in low-grade and lower in high-grade regions of the tumors. ,subunit:Interacts with GAP-A.p65 (By similarity) . Interacts with KHDRBS1. Interacts with phosphorylated IRS4. ,tissue specificity:Epithelia-specific. Very high level in colon and high levels in small intestine and prostate , and low levels in some fetal tissues. Expressed at low level in some breast tumors , but not in normal breast. Also found in melanocytes. Not expressed in heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. , |

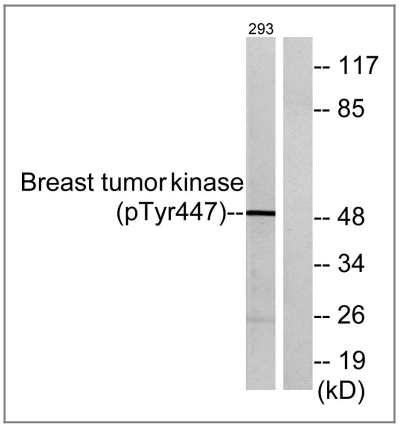
## Validation Data




Western Blot analysis of 293 cells using Phospho-Brk (Y447) Polyclonal Antibody



Immunofluorescence analysis of NIH/3T3 cells, using Breast Tumor Kinase (Phospho-Tyr447) Antibody. The picture on the right is blocked with the phospho peptide.




Western blot analysis of lysates from 293 cells treated with EGF 200ng/ml 30', using Breast Tumor Kinase (Phospho-Tyr447) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information


| | |
|---|---|
| Orders: | order.cn@immunoway.com |
| Support: | support.cn@immunoway.com |
| Telephone: | 400-8787-807(China) |
| Website: | http://www.immunoway.com.cn |
| Address: | 2200 Ringwood Ave San Jose, CA 95131 USA |


Please scan the QR code to access additional product information:
**Brk (Phospho Tyr447) Rabbit pAb**