

ACK1 (Phospho Tyr857/858) Rabbit pAb

CatalogNo: YP1763

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 114kD (Calculated)

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 1:500-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human Ack1 (Phospho-Tyr857+Tyr858)

Specificity This antibody detects endogenous Phospho Ack1 levels of around : Human :Y857 or Y858, Mouse:Y874 or Y875, Rat:Y859 or Y860, and dually phosphorylated at two sites. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):HyyLL

| Target Information

Gene name TNK2 ACK1

Protein Name Ack1 (Phospho-Tyr857+Tyr858)

Organism	Gene ID	UniProt ID
Human	10188;	Q07912;
Mouse	51789;	O54967;
Rat	303882;	Q5U2X5;

Cellular Localization

Cell membrane . Nucleus . Endosome . Cell junction , adherens junction . Cytoplasmic vesicle membrane; Peripheral membrane protein; Cytoplasmic side . Cytoplasmic vesicle , clathrin-coated vesicle . Membrane , clathrin-coated pit . Cytoplasm , perinuclear region . Cytoplasm , cytosol . The Tyr-284 phosphorylated form is found both in the membrane and nucleus (By similarity) . Co-localizes with EGFR on endosomes (PubMed:20333297) . Nuclear translocation is CDC42-dependent (By similarity) . Detected in long filamentous cytosolic structures where it co-localizes with CTPS1 (By similarity) . .

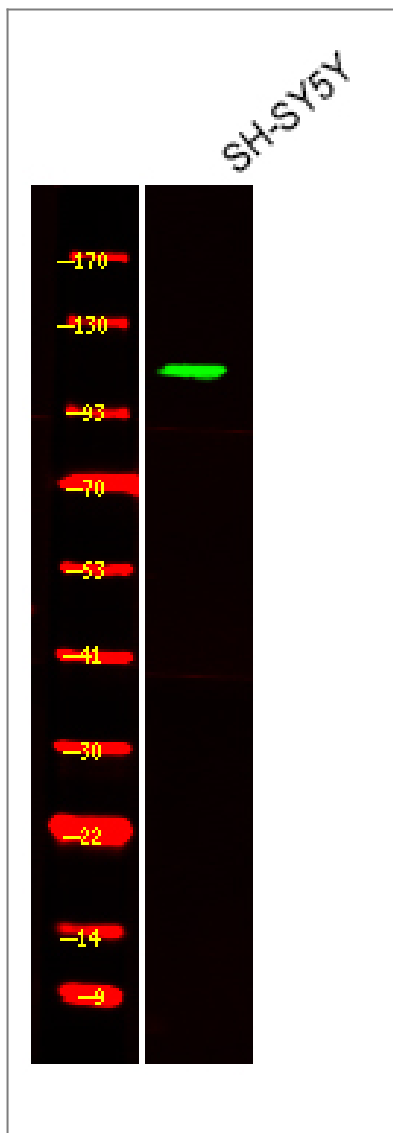
Tissue specificity

The Tyr-284 phosphorylated form shows a significant increase in expression in breast cancers during the progressive stages i.e. normal to hyperplasia (ADH) , ductal carcinoma in situ (DCIS) , invasive ductal carcinoma (IDC) and lymph node metastatic (LNMM) stages. It also shows a significant increase in expression in prostate cancers during the progressive stages.

Function

Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. ,cofactor:Magnesium. ,enzyme regulation:The SH3 domain appears to play an autoinhibitory role. ,Function:Downstream effector of CDC42 which mediates CDC42-dependent cell migration via phosphorylation of BCAR1. Binds to both poly- and mono-ubiquitin and regulates ligand-induced degradation of EGFR. Participates in clathrin-mediated endocytosis. May be involved both in adult synaptic function and plasticity and in brain development. ,sequence Caution:Unlikely isoform. Aberrant splice sites. ,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. ,similarity:Contains 1 CRIB domain. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 1 SH3 domain. ,subunit:Interacts with CDC42. Interacts with activated CSPG4. ,

| Validation Data



Western Blot analysis of various,using primary antibody at 1:1000 dilution.
Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

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