


# Anti-ACK1 (phospho Y284) antibody ab74091

**6 References**   **3 图像**

### 概述

产品名称	Anti-ACK1 (phospho Y284)抗体
描述	兔多克隆抗体to ACK1 (phospho Y284)
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, ICC/IF
种属反应性	与反应: Human 预测可用于: Mouse 
免疫原	Synthetic peptide corresponding to Human ACK1 (phospho Y284). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
阳性对照	Human breast carcinoma tissue, A549 cells, and HepG2 cell extracts treated with EGF (200ng/ml, 30mins).
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS  Without Mg2+ and Ca2+
纯度	Immunogen affinity purified
纯化说明	ab74091 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

克隆	多克隆
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™** 承诺保证使用ab74091于以下的经测试应用

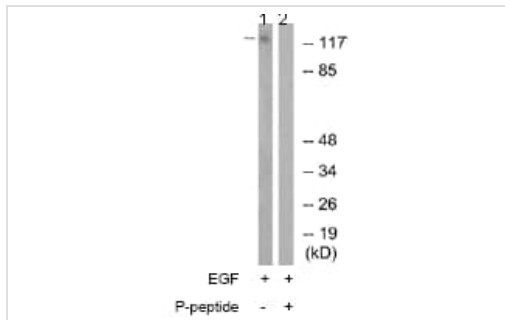
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/500 - 1/1000. Detects a band of approximately >117 kDa (predicted molecular weight: 114 kDa).
IHC-P		1/50 - 1/100.
ICC/IF		1/500 - 1/1000.

## 靶标

功能	Non-receptor tyrosine kinase that regulates the activity of a number of proteins by tyrosine phosphorylation especially proteins critical for cell survival, cell growth, and proliferation. Activates AKT1 by phosphorylating it on 'Tyr-176' resulting in its activation. Phosphorylates AR on 'Tyr-267' and 'Tyr-363' and promotes its recruitment to the androgen-responsive enhancers (AREs). Phosphorylates WWOX on 'Tyr-287'. 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.
组织特异性	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.
序列相似性	Belongs to the protein kinase superfamily. Tyr protein kinase family. Contains 1 CRIB domain. Contains 1 protein kinase domain. Contains 1 SH3 domain. Contains 1 UBA domain.
结构域	The EBD (EGFR-binding domain) domain is necessary for interaction with EGFR. The SAM-like domain is necessary for NEDD4-mediated ubiquitination. Promotes membrane localization and dimerization to allow for autophosphorylation. The UBA domain binds both poly- and mono-ubiquitin.
翻译后修饰	Autophosphorylation regulates kinase activity. Phosphorylation on Tyr-518 is required for interaction with SRC. Ubiquitinated by NEDD4. Its EGF-induced degradation is EGFR activation-dependent and is processed by lysosomes, not proteasomes.
细胞定位	Cell membrane. Nucleus. Endosome. Cell junction > adherens junction. Cytoplasmic vesicle membrane. The Tyr-284 phosphorylated form is expressed both in the membrane and nucleus.

## 图片



Western blot - Anti-ACK1 (phospho Y284) antibody (ab74091)

**All lanes :** Anti-ACK1 (phospho Y284) antibody (ab74091) at 1/500 dilution

**Lane 1 :** HepG2 cell extracts treated with EGF (200ng/ml, 30mins)

**Lane 2 :** HepG2 cell extracts treated with EGF (200ng/ml, 30mins) with immunising peptide at 10 µg

Lysates/proteins at 30 µg per lane.

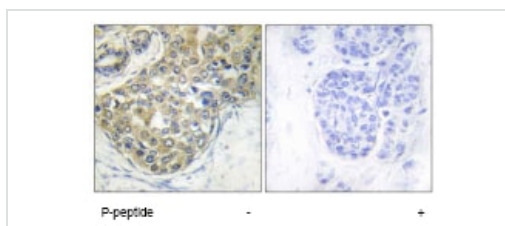
**Predicted band size:** 114 kDa

**Observed band size:** >117 kDa



Immunocytochemistry/ Immunofluorescence - Anti-ACK1 (phospho Y284) antibody (ab74091)

ab74091 at 1/500 dilution staining ACK1 in A549 cells by Immunofluorescence, in the absence or presence of the immunising peptide.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACK1 (phospho Y284) antibody (ab74091)

ab74091 at 1/50 dilution staining ACK1 in human breast carcinoma by Immunohistochemistry, Paraffin-embedded tissue, in the absence or presence of the immunising peptide.

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