


Product datasheet

Anti-ACK1 (phospho Y284) antibody ab74091

3 References [画像数 3](#)

製品の概要

製品名	Anti-ACK1 (phospho Y284) antibody
製品の詳細	Rabbit polyclonal to ACK1 (phospho Y284)
特異性	ab74091 detects ACK1 only when phosphorylated at tyrosine 284.
アプリケーション	適用あり: WB, ELISA, IHC-P, ICC/IF
種交差性	交差種: Human 交差が予測される動物種: Mouse 
免疫原	Synthetic phosphopeptide derived from human ACK1 around the phosphorylation site of tyrosine 284 (D-H-Y ^P -V-M).
ポジティブ・コントロール	Human breast carcinoma tissue, A549 cells, and HepG2 cell extracts treated with EGF (200ng/ml, 30mins).

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ and Ca ²⁺), 150mM Sodium chloride, pH 7.4
精製度	Immunogen affinity purified
特記事項 (精製)	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.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab74091** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/500 - 1/1000. Detects a band of approximately >117 kDa (predicted molecular weight: 114 kDa).
ELISA		1/5000.
IHC-P		1/50 - 1/100.
ICC/IF		1/500 - 1/1000.

ターゲット情報

機能	<p>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.</p>
組織特異性	<p>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.</p>
配列類似性	<p>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.</p>
ドメイン	<p>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.</p>
翻訳後修飾	<p>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.</p>
細胞内局在	<p>Cell membrane. Nucleus. Endosome. Cell junction > adherens junction. Cytoplasmic vesicle membrane. The Tyr-284 phosphorylated form is expressed both in the membrane and nucleus. Co-localizes with EGFR on the endosomes.</p>

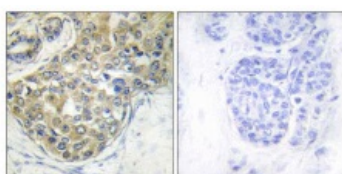
画像



P-peptide - +

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

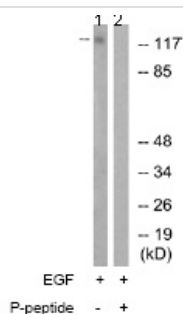
ab74091 at 1/500 dilution staining ACK1 in A549 cells by Immunofluorescence, in the absence or presence of the immunising peptide.



P-peptide - +

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - 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.



Western blot - 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

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