

## Product datasheet

# Anti-p21 (phospho T145) antibody ab39409

### 画像数 1

#### 製品の概要

製品名	Anti-p21 (phospho T145) antibody
製品の詳細	Rabbit polyclonal to p21 (phospho T145)
特異性	ab39409 detects endogenous levels of p21 only when phosphorylated at Threonine 145.
アプリケーション	<b>適用あり:</b> WB, ELISA
種交差性	<b>交差種:</b> Human
免疫原	Synthetic phosphopeptide derived from amino acids around the phosphorylation site of Threonine 145 (Human)
ポジティブ・コントロール	HeLa cells treated with EGF.

#### 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 freeze / thaw cycles.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, PBS, 0.87% Sodium chloride
精製度	Immunogen affinity purified
特記事項 (精製)	ab39409 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

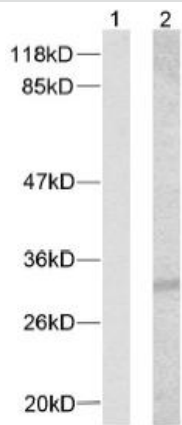
#### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab39409** 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		

アプリケーション	Abreviews	特記事項
ELISA		
<b>追加情報</b>	<p>ELISA: 1/10000.</p> <p>WB: 1/500 - 1/1000. Detects a band of approximately 32 kDa (predicted molecular weight: 18 kDa).</p> <p>Not yet tested in other applications.</p> <p>Optimal dilutions/concentrations should be determined by the end user.</p>	
<b>ターゲット情報</b>		
<b>機能</b>	<p>May be the important intermediate by which p53/TP53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression. Functions in the nuclear localization and assembly of cyclin D-CDK4 complex and promotes its kinase activity towards RB1. At higher stoichiometric ratios, inhibits the kinase activity of the cyclin D-CDK4 complex.</p>	
<b>組織特異性</b>	<p>Expressed in all adult human tissues, with 5-fold lower levels observed in the brain.</p>	
<b>配列類似性</b>	<p>Belongs to the CDI family.</p>	
<b>ドメイン</b>	<p>The PIP-box K+4 motif mediates both the interaction with PCNA and the recruitment of the DCX(DTL) complex: while the PIP-box interacts with PCNA, the presence of the K+4 submotif, recruits the DCX(DTL) complex, leading to its ubiquitination.</p> <p>The C-terminal is required for nuclear localization of the cyclin D-CDK4 complex.</p>	
<b>翻訳後修飾</b>	<p>Phosphorylation of Thr-145 by Akt or of Ser-146 by PKC impairs binding to PCNA.</p> <p>Phosphorylation at Ser-114 by GSK3-beta enhances ubiquitination by the DCX(DTL) complex.</p> <p>Ubiquitinated by MKRN1; leading to polyubiquitination and 26S proteasome-dependent degradation. Ubiquitinated by the DCX(DTL) complex, also named CRL4(CDT2) complex, leading to its degradation during S phase or following UV irradiation. Ubiquitination by the DCX(DTL) complex is essential to control replication licensing and is PCNA-dependent: interacts with PCNA via its PIP-box, while the presence of the containing the 'K+4' motif in the PIP box, recruit the DCX(DTL) complex, leading to its degradation.</p>	
<b>細胞内局在</b>	<p>Cytoplasm. Nucleus.</p>	
<b>画像</b>		



Western blot - p21 (phospho T145) antibody  
(ab39409)

**All lanes :** Anti-p21 (phospho T145) antibody  
(ab39409) at 1/1000 dilution

**Lane 1 :** Untreated extracts from HeLa cells

**Lane 2 :** Extracts from HeLa cells treated with  
EGF

**Predicted band size :** 18 kDa

**Observed band size :** 32 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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