

### Anti-AKT2 (phospho S474) antibody ab38513

★★★★★ [6 Abreviews](#) [25 References](#) [4 图像](#)

#### 概述

|       |  |
|-------|--|
| 产品名称  | Anti-AKT2 (phospho S474)抗体   |
| 描述    | 兔多克隆抗体to AKT2 (phospho S474)   |
| 宿主    | Rabbit   |
| 特异性   | Akt2 (phospho-Ser474) antibody detects endogenous levels of Akt2 only when phosphorylated at serine 474. The region of AKT2 surrounding S474 has a high degree of similarity to the corresponding regions in AKT1 and AKT3 and thus may cross react with these proteins if phosphorylated on the corresponding serine residue. |
| 经测试应用 | <b>适用于:</b> WB, IHC-P  |
| 种属反应性 | <b>与反应:</b> Human  |
| 免疫原   | Synthetic peptide within Human AKT2 aa 432-481 (C terminal) (phospho S474). The exact sequence is proprietary. The antiserum was produced against synthesized phosphopeptide derived from human Akt2 around the phosphorylation site of serine 474.<br>Sequence:<br>SEVDTRYFD DEFTAQSITI TPPDRYDSLGLLELDQRTHF<br>PQFSYSASIR E  |



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#### 常规说明

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.

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&As

#### 性能

|      |   |
|------|---|
| 形式   | Liquid  |
| 存放说明 | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. |
| 存储溶液 | pH: 7.40<br>Preservative: 0.02% Sodium azide<br>Constituents: 50% Glycerol, 0.87% Sodium chloride, 49% PBS              |

|      |  |
|------|--|
| 纯度   | PBS without Mg <sup>2+</sup> and Ca <sup>2+</sup> .  |
| 纯化说明 | Protein A purified<br>The antibody 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 ab38513 于以下的经测试应用

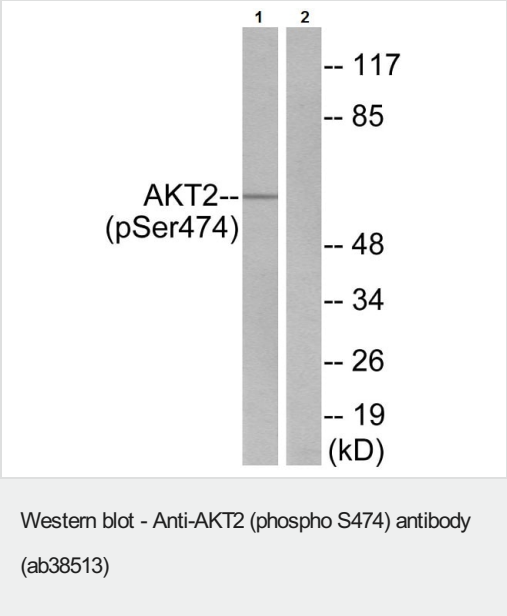
“应用说明”部分 下显示的仅为推荐的起始稀释度; 实际最佳的稀释度/浓度应由使用者检定。

| 应用    | Ab 评论     | 说明   |
|-------|-----------|--|
| WB    | ★★★★★ (2) | 1/500 - 1/1000. Predicted molecular weight: 55 kDa. Can be blocked with <b>Recombinant human AKT2 protein (ab79798)</b> .    |
| IHC-P | ★★★★★ (2) | 1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

## 靶标

|       |   |
|-------|---|
| 功能    | General protein kinase capable of phosphorylating several known proteins.   |
| 组织特异性 | Expressed in all human cell types so far analyzed.  |
| 序列相似性 | Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. RAC subfamily.<br>Contains 1 AGC-kinase C-terminal domain.<br>Contains 1 PH domain.<br>Contains 1 protein kinase domain.  |
| 翻译后修饰 | Phosphorylation on Thr-309 and Ser-474 is required for full activity.<br>Ubiquitinated; undergoes both 'Lys-48'- and 'Lys-63'-linked polyubiquitination. TRAF6-induced 'Lys-63'-linked AKT2 ubiquitination. When fully phosphorylated and translocated into the nucleus, undergoes 'Lys-48'-polyubiquitination catalyzed by TTC3, leading to its degradation by the proteasome. |

## 图片

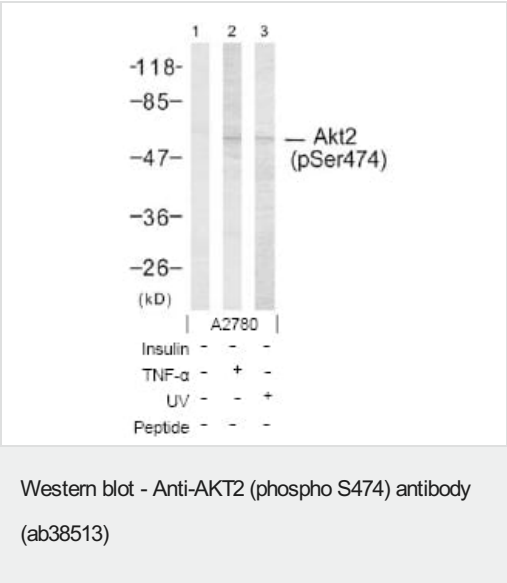


**All lanes :** Anti-AKT2 (phospho S474) antibody (ab38513)

**Lane 1 :** 293 cells treated for 30 min with 200ng/ml EGF

**Lane 2 :** 293 cells treated for 30 min with 200ng/ml EGF with Phospho peptide

**Predicted band size:** 55 kDa



**All lanes :** Anti-AKT2 (phospho S474) antibody (ab38513) at 1/500 dilution

**Lane 1 :** Extract of A2780 cells.

**Lane 2 :** Extract of A2780 cells + TNF alpha.

**Lane 3 :** Extract of A2780 cells + UV.

Lysates/proteins at 30  $\mu$ g per lane.

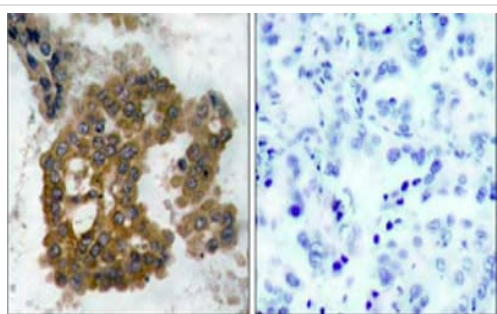
### Secondary

**All lanes :** Alkaline Phosphatase AffiniPure Goat Anti-Rabbit IgG (H+L)

**Predicted band size:** 55 kDa

**Observed band size:** 60 kDa

Lanes can be loaded with 5-30 $\mu$ g of total protein.

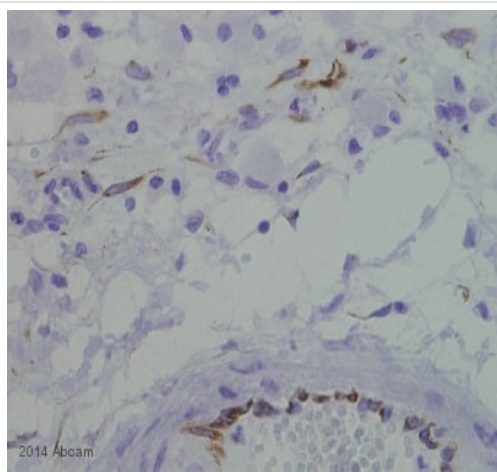


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKT2 (phospho S474) antibody (ab38513)

This image shows human lung carcinoma tissue stained with **ab38513** at 1/50 dilution.

Image on left: untreated.

Image on right: treated with phosphopeptide at 1 µg/ml (negative control).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKT2 (phospho S474) antibody (ab38513)

This image is courtesy of an anonymous Abreview

ab38513 staining AKT2 in human infantile fibromatosis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% FBS/BSA for 3 hours at room temperature; antigen retrieval was by heat mediation in Tris pH 9. Samples were incubated with primary antibody (1/150 in TBS + 1% BSA + 1% FBS) for 16 hours. An undiluted HRP-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody.

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