

## Product datasheet

# Anti-Aquaporin 2 (phospho S261) antibody ab64154

1 References 1 图像

### 概述

<b>产品名称</b>	Anti-Aquaporin 2 (phospho S261)抗体
<b>描述</b>	兔多克隆抗体to Aquaporin 2 (phospho S261)
<b>宿主</b>	Rabbit
<b>特异性</b>	This antibody is specific for ~29k Aquaporin 2 protein phosphorylated at Ser261. It also recognizes the glycosylated form of Aquaporin 2 at ~ 37k. Immunolabeling of the Aquaporin 2 band is blocked by preadsorption with the phospho peptide used as antigen but not by the corresponding dephospho peptide.
<b>经测试应用</b>	<b>适用于:</b> WB, Flow Cyt
<b>种属反应性</b>	<b>与反应:</b> Rat <b>预测可用于:</b> Mouse, Chicken, Cow, Dog, Human, Non human primates 
<b>免疫原</b>	Phosphopeptide corresponding to amino acid residues surrounding the phospho Serine 261 of rat Aquaporin 2.
<b>阳性对照</b>	Rat kidney lysate.

### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>存储溶液</b>	pH: 7.50 Constituents: 0.238% HEPES, 50% Glycerol, 0.87% Sodium chloride, 0.01% BSA
<b>纯度</b>	Immunogen affinity purified
<b>克隆</b>	多克隆
<b>同种型</b>	IgG

### 应用

Our [Abpromise guarantee](#) covers the use of **ab64154** in the following tested applications.

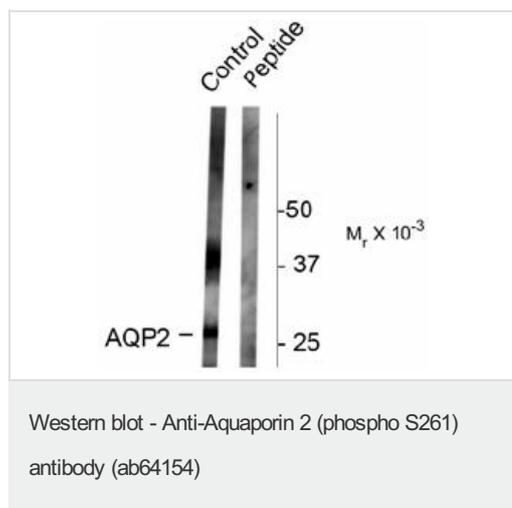
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 29 kDa (predicted molecular weight: 29 kDa).
Flow Cyt		Use at an assay dependent concentration. PubMed: 20826573 <a href="#">ab171870</a> - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

## 靶标

<b>功能</b>	Forms a water-specific channel that provides the plasma membranes of renal collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.
<b>组织特异性</b>	Expressed in renal collecting tubules.
<b>疾病相关</b>	Diabetes insipidus, nephrogenic, autosomal
<b>序列相似性</b>	Belongs to the MIP/aquaporin (TC 1.A.8) family.
<b>结构域</b>	Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA).
<b>翻译后修饰</b>	Ser-256 phosphorylation is necessary and sufficient for expression at the apical membrane. Endocytosis is not phosphorylation-dependent.
<b>细胞定位</b>	Apical cell membrane. Basolateral cell membrane. Cytoplasmic vesicle membrane. Golgi apparatus, trans-Golgi network membrane. Shuttles from vesicles to the apical membrane. Vasopressin-regulated phosphorylation is required for translocation to the apical cell membrane. PLEKHA8/FAPP2 is required to transport AQP2 from the TGN to sites where AQP2 is phosphorylated.

## 图片



**All lanes :** Anti-Aquaporin 2 (phospho S261) antibody (ab64154) at 1/1000 dilution

**Lane 1 :** Rat kidney lysate

**Lane 2 :** Rat kidney lysate, with blocking peptide

**Predicted band size:** 29 kDa

**Observed band size:** 29,37 kDa

[why is the actual band size different from the predicted?](#)

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

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