


## Product datasheet

# Anti-Transcription factor AP-2-alpha antibody ab52222

★★★★★ [8 Abreviews](#) [27 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-Transcription factor AP-2-alpha antibody
<b>Description</b>	Rabbit polyclonal to Transcription factor AP-2-alpha
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Chicken 
<b>Immunogen</b>	Synthetic peptide corresponding to Human Transcription factor AP-2-alpha. Database link: <a href="#">P05549</a>
<b>General notes</b>	<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>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride</p> <p>Without Mg+2 and Ca+2</p>
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab52222 in the following tested applications.

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

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
WB	★★★★★ (2)	1/500 - 1/1000. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa).
IHC-P	★★★★★ (2)	Use at an assay dependent concentration.

## Target

### Function

Sequence-specific DNA-binding protein that interacts with inducible viral and cellular enhancer elements to regulate transcription of selected genes. AP-2 factors bind to the consensus sequence 5'-GCCNNNGGC-3' and activate genes involved in a large spectrum of important biological functions including proper eye, face, body wall, limb and neural tube development. They also suppress a number of genes including MCAM/MUC18, C/EBP alpha and MYC. AP-2-alpha is the only AP-2 protein required for early morphogenesis of the lens vesicle.

### Involvement in disease

Defects in TFAP2A are the cause of branchiooculofacial syndrome (BOFS) [MIM:113620]; also known as branchial clefts with characteristic facies, growth retardation, imperforate nasolacrimal duct, and premature aging or lip pseudocleft-hemangiomatous branchial cyst syndrome. BOFS is a rare autosomal dominant cleft palate craniofacial disorder with variable expressivity. The major features include cutaneous anomalies, ocular anomalies, characteristic facial appearance (malformed pinnae, oral clefts), and, less commonly, renal and ectodermal (dental and hair) anomalies.

### Sequence similarities

Belongs to the AP-2 family.

### Domain

The WW-binding motif mediates interaction with WWOX.

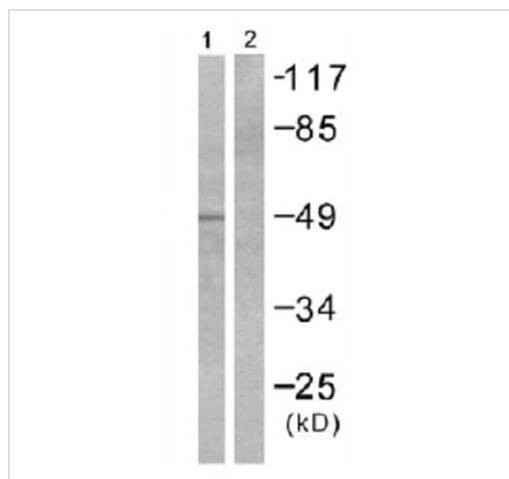
### Post-translational modifications

Sumoylated on Lys-10; which inhibits transcriptional activity.

### Cellular localization

Nucleus.

## Images



Western blot - Anti-Transcription factor AP-2-alpha antibody (ab52222)

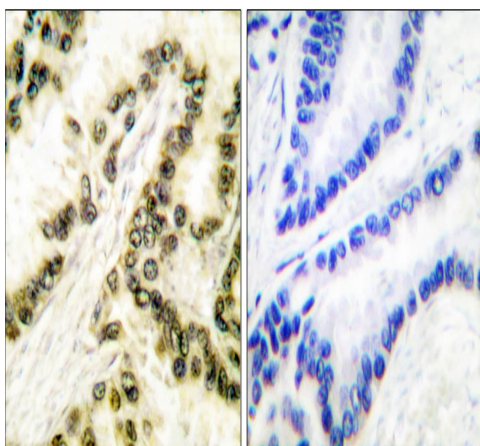
**All lanes :** Anti-Transcription factor AP-2-alpha antibody (ab52222) at 1/500 dilution

**Lane 1 :** COLO 205 (Human colon adenocarcinoma cell line) extracts

**Lane 2 :** COLO 205 (Human colon adenocarcinoma cell line) extracts with immunizing peptide

**Predicted band size:** 48 kDa

**Observed band size:** 48 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Transcription factor AP-2-alpha antibody (ab52222)

Immunohistochemical staining of paraffin embedded human breast carcinoma tissue using ab52222.

Left: - peptide. Right: + peptide.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

#### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors