

## Cytokeratin 4 (KRT4) Monoclonal Antibody

**CAB0013**

### Description

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This Cytokeratin 4 (KRT4) Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

### Product Information

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<b>SKU:</b>	CAB0013
<b>Contents:</b>	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
<b>Category:</b>	Monoclonal Antibody
<b>Synonyms:</b>	K4, CK4, CK-4, CYK4, WSN1, Cytokeratin 4 (KRT4)
<b>Clone:</b>	ARC1804
<b>Applications:</b>	<span style="background-color: red; border: 1px solid black; padding: 2px 5px;">WB</span> <span style="background-color: #ADD8E6; border: 1px solid black; padding: 2px 5px;">IHC-P</span> <span style="background-color: #90EE90; border: 1px solid black; padding: 2px 5px;">ELISA</span> <span style="background-color: #808000; border: 1px solid black; padding: 2px 5px;">IF-P</span>
<b>Conjugation:</b>	Unconjugated
<b>Reactivity:</b>	Human, Mouse

### Antibody Data

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<b>Gene ID:</b>	3851
<b>Uniprot:</b>	AB_2861445
<b>Host Species:</b>	Rabbit
<b>Purification:</b>	Affinity purification
<b>Observed MW:</b>	57kDa
<b>Calculated MW:</b>	56kDa

## Preparation & Storage

**Storage:** Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

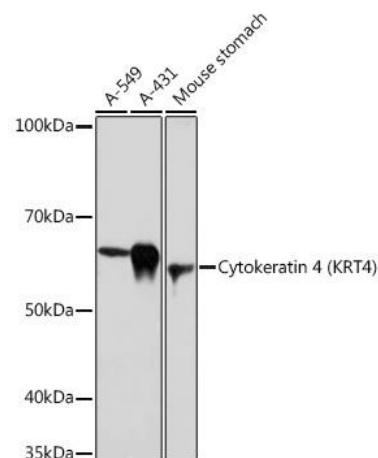
Store Bradford Reagent at Room Temperature for 1 Year.

**Positive Sample:** A549, A-431, Mouse stomach

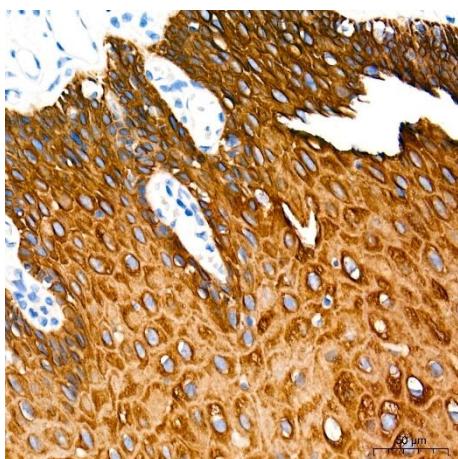
<b>Recommended Dilutions:</b>	<table border="1"> <tr> <td><b>WB</b></td><td>1:1000 - 1:4000</td></tr> <tr> <td><b>IF-P</b></td><td>1:100 - 1:400</td></tr> <tr> <td><b>IHC-P</b></td><td>1:500 - 1:2000</td></tr> <tr> <td><b>ELISA</b></td><td>Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.</td></tr> </table>	<b>WB</b>	1:1000 - 1:4000	<b>IF-P</b>	1:100 - 1:400	<b>IHC-P</b>	1:500 - 1:2000	<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
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**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

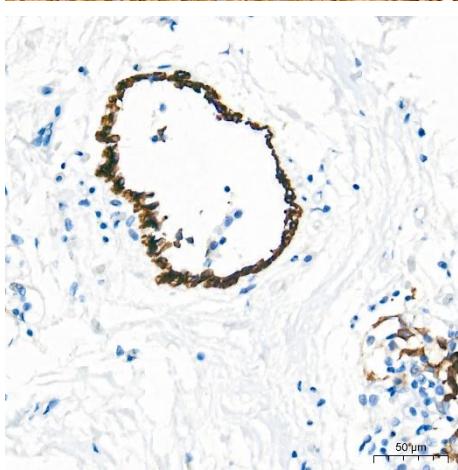
## Validation Data



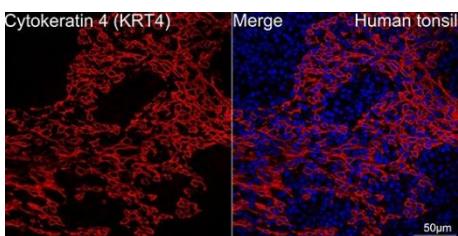
Western blot analysis of various lysates using Cytokeratin 4 Rabbit mAb (CAB0013) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 30s.



Immunohistochemistry analysis of paraffin-embedded human esophagus tissue using Cytokeratin 4 Rabbit mAb (CAB0013) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded human breast tissue using Cytokeratin 4 Rabbit mAb (CAB0013) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Confocal imaging of human tonsil tissue using Cytokeratin 4 Rabbit mAb (CAB0013, dilution 1:100)(Red). DAPI was used for nuclear staining (blue). Objective: 40x. Perform high pressure antigen retrieval with 10 mM citrate buffer (pH 6.0) before commencing with IF staining protocol.