abcam

# ab201990

# Anti-Casein Kinase 2 beta antibody [2F12F3]

## Key facts

| | |
|---|---|
| **Isotype** | IgG1 |
| **Host species** | Mouse |
| **Storage buffer** | Preservative: 0.05% Sodium azide Constituents: PBS |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Recombinant Full Length Protein corresponding to Human CSNK2B. Database link P67870 |
| **Clone number** | 2F12F3 |
| **Purification technique** | Affinity purification Protein G |
| **Concentration** | 1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder → |
| **Purification notes** | Purified from tissue culture supernatant. |

## Reactivity data

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/200 - 1/400 |
| **Notes** | ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |

### Expected

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Rabbit, Chicken, Cow, Pig |
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Recombinant fragment - Human, Transfected cell lysate - Human |
| **Dilution info** | - |
| **Notes** | - |

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/500 - 1/2000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | 1/500 - 1/2000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/500 - 1/2000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Recombinant fragment - Human |
| **Dilution info** | 1/500 - 1/2000 |

| | |
|---|---|
| **Notes** | - |

| | |
|---|---|
| **Species** | Transfected cell lysate - Human |
| **Dilution info** | 1/500 - 1/2000 |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Rabbit, Chicken, Cow, Pig |
| **Dilution info** | - |
| **Notes** | - |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/200 - 1/1000 |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Rabbit, Chicken, Cow, Pig |
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Recombinant fragment - Human, Transfected cell lysate - Human |
| **Dilution info** | - |

| | |
|---|---|
| **Notes** | - |

## ICC/IF

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/200 - 1/1000 |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

### Predicted

| | |
|---|---|
| **Species** | Rabbit, Chicken, Cow, Pig |
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Recombinant fragment - Human, Transfected cell lysate - Human |
| **Dilution info** | - |
| **Notes** | - |

# Target data

See full target information CSNK2B

| | |
|---|---|
| **Function** | Regulatory subunit of casein kinase II/CK2. As part of the kinase complex regulates the basal catalytic activity of the alpha subunit a constitutively active serine/threonine-protein kinase that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated serine or threonine (PubMed:11239457, PubMed:16818610). Participates in Wnt signaling (By similarity). (Microbial infection) Upon infection with Epstein-Barr virus (EBV), the interaction with viral EBNA1 increases the association of CK2 with PML proteins, |

which increases PML phosphorylation by CK2, triggering the polyubiquitylation and degradation of PML (PubMed:20719947, PubMed:24216761). Seems to also suppress EBV reactivation by mediating ARK2N and JUN at the Z promoter which inhibits BZLF1 transcrition (PubMed:31341047).

## Storage

| | |
|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage duration** | 1-2 weeks |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | -20°C |
| **Aliquoting information** | Upon delivery aliquot |
| **Storage information** | Avoid freeze / thaw cycle |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

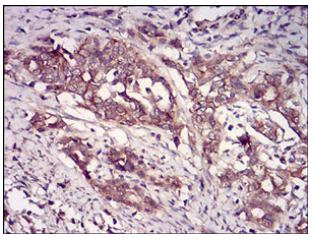
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

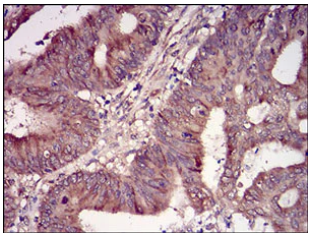
## 7 product images



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Casein Kinase 2 beta antibody [2F12F3] (ab201990)

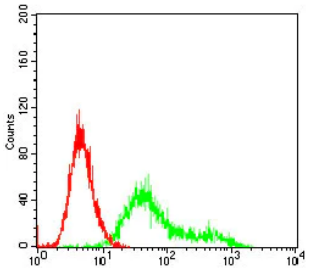
Casein Kinase 2 beta Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-Casein Kinase 2 beta antibody

Immunohistochemical analysis of paraffin-embedded Human cervical cancer tissue labeling Casein Kinase 2 beta with ab201990 at 1/200 dilution.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Casein Kinase 2 beta antibody [2F12F3] (ab201990)

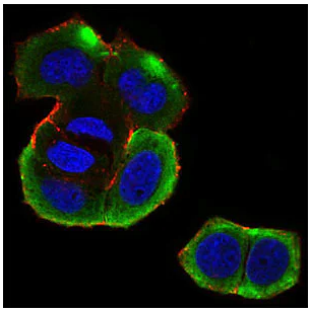
Immunohistochemical analysis of paraffin-embedded Human colon cancer tissue labeling Casein Kinase 2 beta with ab201990 at 1/200 dilution.




### Flow Cytometry - Anti-Casein Kinase 2 beta antibody [2F12F3] (ab201990)

Casein Kinase 2 beta Flow Cytometry staining using mouse Anti-Casein Kinase 2 beta antibody

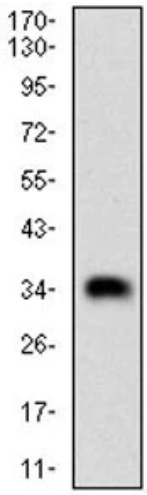
Flow cytometric analysis of HeLa cells using ab201990 at 1/200 dilution (green) and negative control (red).



### Immunocytochemistry/ Immunofluorescence - Anti-Casein Kinase 2 beta antibody [2F12F3] (ab201990)

Casein Kinase 2 beta Immunocytochemistry/ Immunofluorescence staining using mouse Anti-Casein Kinase 2 beta antibody

Immunofluorescence analysis of MCF-7 cells using ab201990 at 1/200 dilution (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

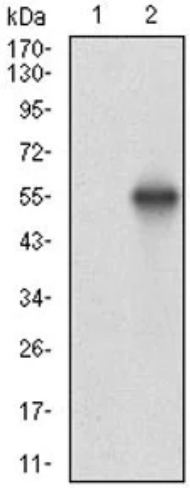



## Western blot - Anti-Casein Kinase 2 beta antibody [2F12F3] (ab201990)

All lanes:
Western blot - Anti-Casein Kinase 2 beta antibody [2F12F3] (ab201990) at 1/500 dilution

All lanes:
Human Casein Kinase 2 beta (AA: FULL(1-215)) recombinant protein

Predicted band size: 24 kDa



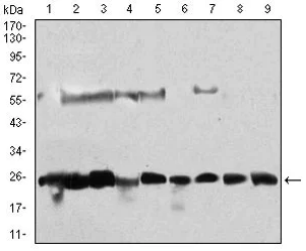

## Western blot - Anti-Casein Kinase 2 beta antibody [2F12F3] (ab201990)

All lanes:
Western blot - Anti-Casein Kinase 2 beta antibody [2F12F3] (ab201990) at 1/500 dilution

Lane 1:
HEK293 cell lysate

Lane 2:
Casein Kinase 2 beta (AA: FULL(1-215))-hIgGFc transfected HEK293 cell lysate

Predicted band size: 24 kDa




## Western blot - Anti-Casein Kinase 2 beta antibody [2F12F3] (ab201990)

All lanes:
Western blot - Anti-Casein Kinase 2 beta antibody [2F12F3] (ab201990) at 1/500 dilution

Lane 1:
Hela cell lysate

Lane 2:
Jurkat cell lysate

Lane 3:
K562 cell lysate

Lane 4:
HepG2 cell lysate

Lane 5:
C6 cell lysate

Lane 6:
SK-N-SH cell lysate

Lane 7:
NTERA-2 cell lysate

Lane 8:
MCF-7 cell lysate

Lane 9:
NIH/3T3 cell lysate

Predicted band size: 24 kDa

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.