

## Anti-Caspase-6 Antibody (5J689)

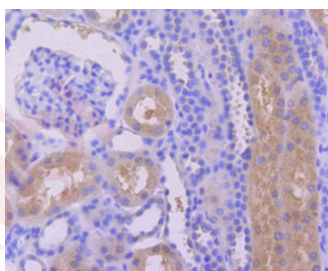
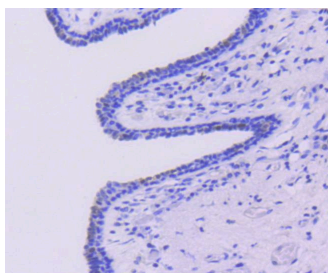
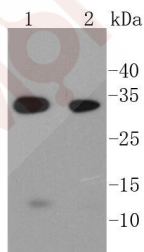
### Product Details

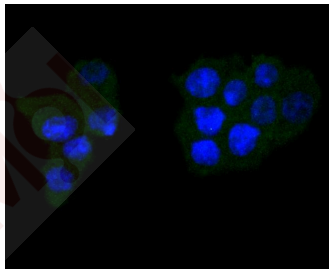
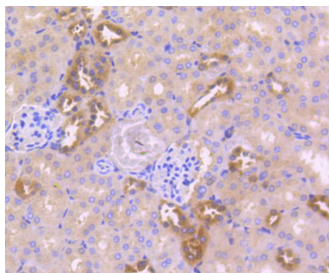
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 11/33 kDa.
Clone:	5J689
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of Caspase-6 on different lysates using anti-Caspase-6 antibody at 1/1,000 dilution. Positive control: Lane 1: Mouse colon, Lane 2: MCF-7.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Caspase-6 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Caspase-6 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Caspase-6 antibody. Counter stained with hematoxylin.
5. ICC staining Caspase-6 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P55212

Synonyms: Apoptotic protease MCH2;CASP-6;CASP6\_HUMAN;Caspase 6, apoptosis related cysteine peptidase;Caspase6;MCH2;Caspase 6 apoptosis related cysteine protease;Apoptotic protease Mch-2;Caspase-6 subunit p11;OTTHUMP00000162742;OTTHUMP00000162743;CASP6

### Research Background

A unique family of cysteine proteases has been described that differs in sequence, structure and substrate specificity from any previously described protease family. This family, Ced-3/caspase-1, is comprised of caspase-1, caspase-2, caspase-3, caspase-4, caspase-6, caspase-7 (also designated Mch3, ICE-LAP3 or CMH-1), caspase-9 and caspase-10. Ced-3/ caspase-1 family members function as key components of the apoptotic machinery and act to destroy specific target proteins which are critical to cellular longevity. Poly(ADP-ribose)polymerase plays an integral role in surveying for DNA mutations and double strand breaks. Caspase-3, caspase-7 and caspase-9, but not caspase-1, have been shown to cleave the nuclear protein PARP into an apoptotic fragment. caspase-6, but not caspase-3, has been shown to cleave the nuclear lamins, which are critical to maintaining the integrity of the nuclear envelope and cellular morphology. Caspase-10 has been shown to activate caspase-3 and caspase-7 in response to apoptotic stimuli.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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