

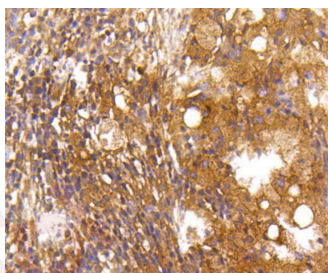
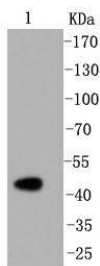
Anti-CASP2 Antibody (8H206)

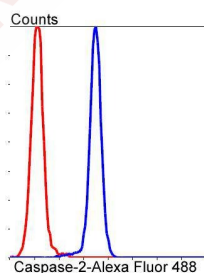
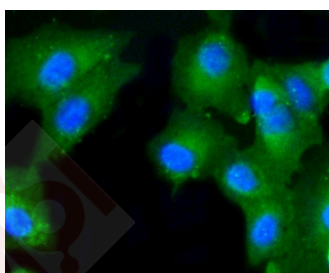
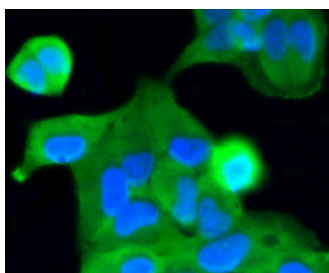
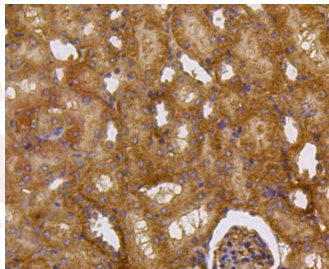
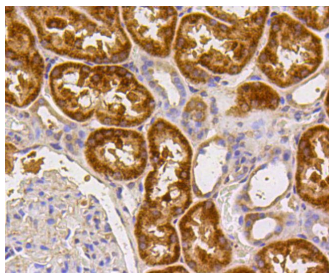
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 48/30/12 kDa.
Clone:	8H206
Purification:	ProA affinity purified

Applications

- Verified Activity:
1. Western blot analysis of Caspase-2 on 293 cell lysate using anti-Caspase-2 antibody at 1/1,000 dilution.
 2. Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Caspase-2 antibody. Counter stained with hematoxylin.
 3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Caspase-2 antibody. Counter stained with hematoxylin.
 4. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Caspase-2 antibody. Counter stained with hematoxylin.
 5. ICC staining Caspase-2 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
 6. ICC staining Caspase-2 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
 7. Flow cytometric analysis of Jurkat cells with Caspase-2 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM, ICC/IF, IHC, WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

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:	P42575
Synonyms:	NEDD-2;CASP-2;Neural precursor cell expressed developmentally down-regulated protein 2; Caspase2;Protease ICH-1;ICH1 NEDD2;EC 3.4.22.55;Caspase-2

Research Background

Caspase-2 (Nedd2, ICH-1) is an aspartate-specific cysteine protease that is activated in response to various apoptotic stimuli. Caspase-2 is unique among the caspases in that it has features of both upstream caspases (long prodomain) and downstream caspases (DEXD substrate specificity). Caspase-2 is highly expressed in the brain during development, and is expressed at low levels in adult tissue. Specifically, caspase-2 localizes to the mitochondria, the Golgi, the cytoplasm, and the nucleus. Caspase-2 exists as two isoforms, caspase-2L and caspase-2S, which are produced by alternative splicing and differ in their N and C-termini. Caspase-2L acts as a positive regulator of apoptosis, whereas caspase-2S functions as a negative regulator of apoptosis. Following apoptotic stimuli, the caspase-2L precursor undergoes cleavage at Asp-153 to produce a fragment (p30). The p30 fragment undergoes further cleavage to generate a fragment containing amino acids 153-308 (p18) and a fragment containing amino acids 317-435 (p13 or p14). As apoptosis progresses, the p13 (p14) fragment can undergo further processing to yield a fragment containing amino acids 331-435 (p12).

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