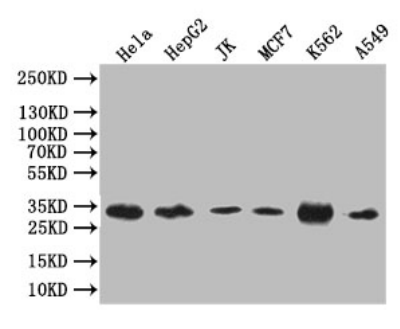
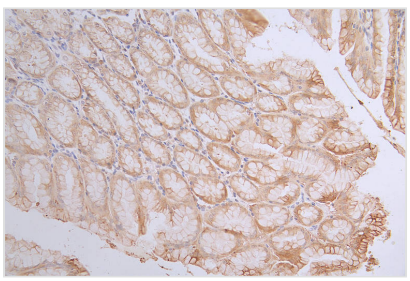
CASP3 Recombinant Monoclonal Antibody

Product Code	CSB-RA003656A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P42574
Immunogen	A synthesized peptide derived from Human CASP3
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:2000, IHC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer;Cell biology;Metabolism
Gene Names	CASP3
Clone No.	14C1

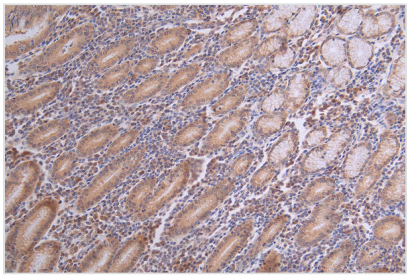
Image



Western Blot
Positive WB detected in: Hela whole cell lysate, HepG2 whole cell lysate, JK whole cell lysate, MCF7 whole cell lysate, K562 whole cell lysate, A549 whole cell lysate
All lanes: Caspase 3 antibody at 1:1000
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 32 kDa
Observed band size: 32 kDa



IHC image of CSB-RA003656A0HU diluted at 1:100 and staining in paraffin-embedded human stomach tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.18% DAB.



IHC image of CSB-RA003656A0HU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.18% DAB.

Description

The CASP3 recombinant monoclonal antibody is synthetically generated in vitro, starting with the extraction of CASP3 antibody genes from B cells isolated from immunoreactive rabbits. These genes are then amplified and cloned into suitable phage vectors, which are subsequently introduced into mammalian cell lines to enable the production of functional antibodies in substantial quantities. Following this, the CASP3 recombinant monoclonal antibody is purified from the culture supernatant of the transfected cell lines through affinity chromatography. This antibody can react with human CASP3 protein and has been tested for ELISA, WB, and IHC applications.

CASP3 is a critical enzyme in apoptosis, serving as an executioner that dismantles and disposes of cells in a controlled and regulated manner. Its role is essential for tissue development, maintenance of tissue homeostasis, and preventing the survival of damaged or harmful cells.