

20-1043: Polyclonal antibody to Caspase 8 (active/cleaved)

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| Clonality : | Polyclonal |
| Application : | WB,IHC,IP |
| Reactivity : | Dog, Gerbil, Human, Mouse, Rat |
| Gene : | CASP8 |
| Gene ID : | 841 |
| Uniprot ID : | Q14790 |
| Format : | Sera |
| Alternative Name : | Apoptotic cysteine protease, Apoptotic protease Mch-5, CAP4, FADD-homologous ICE/ced-3-like protease, FADD-like ICE, ICE-like apoptotic protease 5, MORT1-associated ced-3 homolog, MCH5 |
| Isotype : | Rabbit IgG |
| Immunogen Information : | A recombinant catalytically active of human Caspase-8 (active/cleaved) protein was used as the immunogen for this antibody |

Description

Apoptosis occurs during normal cellular development and involves dramatic changes in cellular structure. Disruption of apoptosis may contribute to cancer as well as other autoimmune diseases. Caspase family of cysteine proteases has been shown to play a key role in apoptosis. Caspase-8 is a 55 kDa cytosolic protein that is synthesized as an inactive pro-enzyme. Activation of caspase-8 involves a two-step proteolysis: the cleavage of caspase-8 to generate a 43 and a 12 kDa fragment which is further processed to 10 kDa. The p43 is then cleaved to yield p26 and the release of the active site containing p18. The Active/Cleaved Caspase-8 polyclonal antisera recognizes the large and small subunits of active/cleaved caspase-8. Whereas the antisera has a strong preference for active/cleaved caspase-8, in some cell or tissue systems or techniques the antisera may also recognize the proform of caspase-8 as well as intermediate caspase-8 cleavage fragments.

Product Info

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| Amount : | 50 µl |
| Content : | 50 µl sera |
| Storage condition : | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200

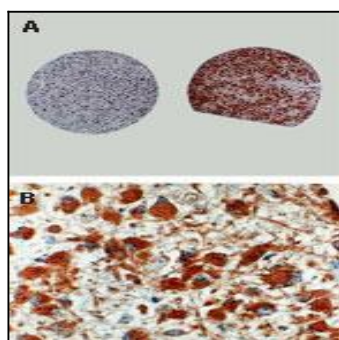


Fig:1 Formalin-fixed, paraffin-embedded sections from a brain tumor tissue array stained for Caspase-8 expression using 20-1043 at 1:2000. A. Anaplastic glioma (Grade III, left) and Gemistocytoma (Grade II, right) cores showing negative and positive staining for Caspase-8, respectively. B. Higher magnification of the Gemistocytoma tumor (from A).

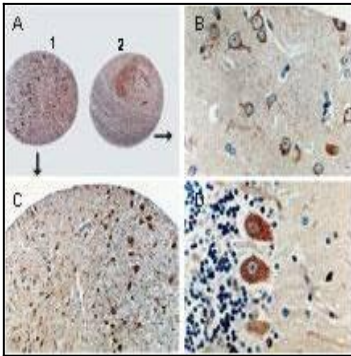


Fig:2 Formalin-fixed, paraffin-embedded sections from a brain tissue array stained for Caspase-8 expression using 20-1043 at 1:2000. A. Normal brain stem (1) and cortex (2). B. Higher magnification of cortex (from A). C. Higher magnification of brain stem (from A). D. Normal cerebellum showing caspase-8 staining in the Purkinje cells.