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Caspase-2 Antibody [10C6]

CATALOG NUMBER: 36-178

Specifications

SPECIES REACTIVITY:	Dog, Human, Monkey, Mouse, Rat
TESTED APPLICATIONS:	ELISA, FACS, ICC, IHC
APPLICATIONS:	Flow Cytometry: (overexpressed in cell lines) . Immunocytochemistry: (10-20ug/ml; fix in 4% paraformaldehyde, 0.18% Triton-X100 for 10 min. prior to staining) . Immunohistochemistry: (frozen sections). Optimal conditions must be determined individually for each application.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	Recognizes an epitope in the p19 subunit of human, mouse, rat, monkey and dog caspase-2.
IMMUNOGEN:	Recombinant human caspase-2 (p19 subunit).
HOST SPECIES:	Rat

Properties

PURIFICATION:	>95% (SDS-PAGE)
PHYSICAL STATE:	Liquid
BUFFER:	Liquid. In PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/ml
STORAGE CONDITIONS:	Stable for at least 1 year after receipt when stored at -20˚C.
CLONALITY:	Monoclonal
ISOTYPE:	IgG2a, kappa
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	CASP-2; Protease ICH-1; Neural Precursor Cell Expressed Developmentally Down-regulated Protein 2; NEDD-2
ACCESSION NO.:	P42575
PROTEIN GI NO.:	83300977
OFFICIAL SYMBOL:	CASP2
GENE ID:	835

Background

BACKGROUND:	Caspase-2 is a Class I caspase with a long prodomain necessary for nuclear localization. Upon activation of the apoptotic pathway, the procaspase is cleaved into smaller fragments. Caspase-2 is the nuclear apoptotic respondent to cellular genotoxic stress or mitotic catastrophe and is involved in the activation cascade of caspases responsible for apoptosis execution. Activation occurs upon recruitment to a complex containing a p53-induced death domain protein, PIDD. This suggests caspase-2 can be a nuclear initiator caspase with a requirement for caspase-9 and caspase-3 activation in downstream apoptotic events. In apoptotic pathways resulting from UV-induced DNA damage, processing of caspase-2 occurs downstream of mitochondrial dysfunction and of caspase-9 and caspase-3 activation, extending a possible role for caspase-2 as a parallel effector caspase.

December 13, 2016