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caspase-3 p12 subunit Antibody Blocking Peptide

Catalog Number:	bs-0087P
Activity:	Not tested
Purification:	HPLC
Storage:	Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	The caspase family of cysteine proteases play a key role in apoptosis. Caspase 3 is the most
	extensively studied apoptotic protein among caspase family members. Caspase 3 is
	synthesized as inactive pro enzyme that is processed in cells undergoing apoptosis by self
	proteolysis and/or cleavage by other upstream proteases (e.g. Caspases 8, 9 and 10). The
	processed form of Caspase 3 consists of large (17kDa) and small (12kDa) subunits which
	associate to form an active enzyme. Caspase 3 is cleaved at Asp28 Ser29 and Asp175 Ser176.
	The active Caspase 3 proteolytically cleaves and activates other caspases (e.g. Caspases 6, 7
	and 9), as well as relevant targets in the cells (e.g. PARP and DFF). Alternative splicing of this
	gene results in two transcript variants which encode the same protein. In
	immunohistochemical studies Caspase 3 expression has been shown to be widespread but
	not present in all cell types (e.g. commonly reported in epithelial cells of skin, renal proximal
	tubules and collecting ducts). Differences in the level of Caspase 3 have been reported in
	cells of short lived nature (eg germinal centre B cells) and those that are long lived (eg
	mantle zone B cells). Caspase 3 is the predominant caspase involved in the cleavage of
	amyloid beta 4A precursor protein, which is associated with neuronal death in Alzheimer's
	disease.