

## 32-6216: Mouse Anti Human SMAC/DIABLO(Clone:PAT19F2Ae)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	PAT19F2Ae
<b>Application :</b>	ELISA, WB
<b>Gene :</b>	XIAP
<b>Gene ID :</b>	331
<b>Uniprot ID :</b>	P98170
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Diablo homolog mitochondrial, Second mitochondria-derived activator of caspase, Smac protein, Direct IAP-binding protein with low pI, DIABLO, SMAC, SMAC3, DIABLO-S, FLJ10537, FLJ25049.
<b>Isotype :</b>	Mouse IgG2a heavy chain and Kappa light chain.
<b>Immunogen Information :</b>	Anti-human SMAC/DIABLO mAb, clone PAT19F2A, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human SMAC/DIABLO protein 56-239 amino acids purified from E. coli.

### Description

Smac/Diablo is a proapoptotic protein that increases caspase activation in the cytochrome c/Apaf-1/caspase-9 pathway by its binding to the inhibitor of apoptosis proteins (IAPs) and removing their inhibitory activity. Smac/Diablo is a mitochondrial protein which enters the cytosol when cells go through apoptosis, and it moderates the caspase inhibition of IAPs. Smac/DIABLO expression is associated with the result of renal cell carcinoma. Dimeric form of Smac/DIABLO implies that once expressed in the cell the protein has a little probability of dissociation and, thus, loss of function. Survivin, Smac/DIABLO, & PKC- $\zeta$  play an important part in the inhibition of apoptosis by FGF-2 in human small cell lung cancer cells. Mitochondrial survivin associates with Smac/DIABLO, delaying its release. Decreased expression of Smac protein takes part in ovarian carcinogenesis and chemotherapeutic resistance. Smac/DIABLO plays a role in tumor cells during the pathway of apoptosis induction. SMAC protein is regulated by XIAP and degraded by proteasome. SMAC protein takes part in leukemic cell apoptosis. Smac is released during stress-induced apoptosis in multiple myeloma cells.

### Product Info

<b>Amount :</b>	20 $\mu$ g
<b>Purification :</b>	SMAC/DIABLO antibody was purified from mouse ascitic fluids by protein-A affinity chromatography.
<b>Content :</b>	1mg/ml containing PBS, pH-7.4, 10% Glycerol and 0.02% Sodium Azide.
<b>Storage condition :</b>	For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

### Application Note

The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:3000.