

## **Aven Antibody**



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IF-IC, FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 50	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q9NQS1	<b>Entrez-Gene Id:</b> 57099
Product Usage Information		<b>Application</b> Western Blotting Immunofluorescence Flow Cytometry (Fixed	-	nistry)		<b>Dilution</b> 1:1000 1:50 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Aven Antibody detects endogenous levels of total Aven protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the carboxy terminus of Aven. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The Bcl-2 family regulates apoptosis in response to a wide range of stimuli through control of mitochondrial cytochrome c release and caspase activation (1-3). Cytosolic Apaf-1 forms a complex with caspase-9 in the presence of cytochrome c and dATP, ultimately leading to caspase-9 activation and subsequent activation of caspase-3. A large number of proteins have been found to interact with Bcl-2 and other family members that have been shown to help regulate apoptosis. Aven was identified in a yeast two-hybrid screen as a bcl-x <sub>L</sub> interacting protein (4). It also interacts with other anti-apoptotic family members, including Bcl-2, but fails to interact with pro-apopotic proteins Bax and Bak. Aven inhibits apoptosis and enhances anti-apopotic activity of Bcl-x <sub>L</sub> . It interferes with association with Apaf-1 and activation of caspase-9. Aven overexpression is associated with poor prognosis in acute lymphoblastic leukemia (5,6).				
Background Ro	eferences	<ol> <li>Harris, M.H. and Thompson, C.B. (2000) Cell Death. Differ. 7, 1182-1191.</li> <li>Cory, S. et al. (2003) Oncogene 22, 8590-8607.</li> <li>Scorrano, L. and Korsmeyer, S.J. (2003) Biochem. Biophys. Res. Commun. 304, 437-444.</li> <li>Chau, B.N. et al. (2000) Mol. Cell 6, 31-40.</li> <li>Choi, J. et al. (2006) Leuk. Res. 30, 1019-1025.</li> <li>Paydas, S. et al. (2003) Ann. Oncol. 14, 1045-1050.</li> </ol>				
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**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry

(Fixed/Permeabilized)

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat Mk: Monkey

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