10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SIVA Antibody

Catalog # ASC11414

Product Information

Application	WB, IF, E
Primary Accession	O15304
Other Accession	NP_068355, 11277468
Reactivity	Human, Mouse
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Calculated MW	18695
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SIVA antibody can be used for detection of EPAC1 by Western blot at 1 μg/mL. Antibody can also be used for immunofluorescence starting at 20 μg/mL. For immunofluorescence start at 20 μg/mL.

Additional Information

Gene ID	10572
Other Names	Apoptosis regulatory protein Siva, CD27-binding protein, CD27BP, SIVA1, SIVA
Target/Specificity	SIVA1;
Reconstitution & Storage	SIVA antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SIVA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SIVA1
Synonyms	SIVA
Function	Induces CD27-mediated apoptosis. Inhibits BCL2L1 isoform Bcl- x(L) anti-apoptotic activity. Inhibits activation of NF-kappa-B and promotes T-cell receptor-mediated apoptosis.
Cellular Location	Cytoplasm. Nucleus. Note=In the nucleus, accumulates in dot- like structures
Tissue Location	Ubiquitous. Mostly expressed in thymus, testis, ovary, prostate, small intestine and spleen and less in colon

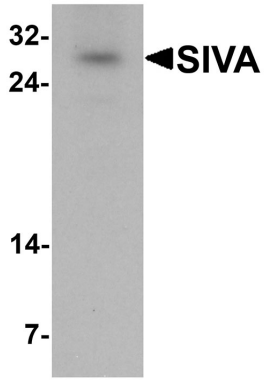
Background

SIVA Antibody: SIVA plays an important role in the apoptotic pathway induced by the CD27 antigen, a member of the tumor necrosis factor receptor (TFNR) superfamily. SIVA is a small cysteine-rich protein with a unique N-terminal amphipathic helical region, a death domain homology region (DDHR) and a C-terminal cysteine-rich B-box-like or zinc-finger-like structure. The DDHR domain binds to CD27 and induces apoptosis in T cells through a caspase-dependent mitochondrial pathway. SIVA inhibits BCL2L1 isoform Bcl-xL anti-apoptotic activity and inhibits activation of NFκ-B and promotes T-cell receptor-mediated apoptosis. SIVA represents a potential therapeutic target for the treatment of neuronal cell death diseases.

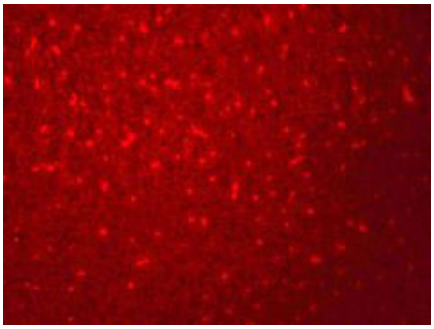
References

Prasad KV, Ao Z, Yoon Y, et al. CD27, a member of the tumor necrosis factor receptor family, induces apoptosis and binds to Siva, a proapoptotic protein. Proc. Natl. Acad. Sci. USA 1997; 94:6346-51.
Py B, Slomianny C, Auberger P, et al. Siva-1 and an alternative splice form lacking the death domain, Siva-2, similarly induce apoptosis in T lymphocytes via a caspase-dependent mitochondrial pathway. J. Immunol. 2004; 172:4008-17.
Resch U, Schichl YM, Winsauer G, et al. Siva1 is a XIAP-interacting protein that balances NFkappaB and JNK signalling to promote apoptosis. J. Cell Sci. 2009; 122:2651-61
Jacobs SB, Basak S, Murray JI, et al. Siva is an apoptosis-selective p53 target gene important for neuronal cell death. Cell Death Differ. 2007; 14:1374-85.

Images



Western blot analysis of SIVA in mouse liver tissue lysate with SIVA antibody at 1 µg/mL.



Immunofluorescence of SIVA in mouse liver cells with SIVA antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.