

Survivin Antibodies and Peptides

Cat. SURV11-S	Rabbit Anti-Human Survivin antibodies	SIZE: 100 ul
Cat. SURV11-A	Rabbit Anti-Human Survivin (affinity pure)	SIZE: 100 ug
Cat. SURV11-P	Human Survivin Control peptide	SIZE: 100 ug

The inhibitors of apoptosis proteins (IAPs) are a widely expressed gene family of apoptotic inhibitors. Recently, a new human gene encoding a structurally and unique IAP designated **Survivin** has been identified. Survivin (human 142 aa, ~16.5 kDa, chromosome 17q25; Mouse TIAP/Survivin 140 aa) contains a single baculovirus IAP repeat and lacks a C-terminal RING finger. It has the property of oncofetal antigens: highly expressed in less-differentiated embryonic cells or rapidly dividing tumor cell but not in fully differentiated adult tissues. Elevated levels of Survivin are found in human fetal lung, liver, heart, kidney, and gastrointestinal tract. In mouse embryonic tissues, Survivin is detected in most tissues. High level of Survivin was found in most common human cancer, including cancers of the lung, colon, pancreas, prostate, and breast. Expression of Survivin also correlated with the presence of both p53 and bcl-2.

Source of Antigen and Antibodies

Antigen	21-aa peptide from human survivin (1) ; Designation (#SURV11-P, control/blocking peptide) conjugated to KLH
Epitope Location	~C-terminus
Ab Host/type	Rabbit, Polyclonal unpurified antiserum (#SURV11-S) and IgG, purified over antigen-agarose (Cat # SURV11-A)
2-Ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).

Form & Storage of Antibodies/Peptide Control

Antiserum (unpurified, undiluted)

100 ul/vial solution	50 ul/vial lyophilized powder
contains 0.05% sodium azide	
Reconstitute powder 50 ul or 100 ul PBS	

Affinity pure IgG

100 ug/100ul solution	50 ug/50 ul lyophilized powder
Buffer: PBS+0.1% BSA+0.05% azide	
Reconstitute powder in PBS at 1mg/ml	

Control/blocking peptide

100 ug/100 ul solution	50 ug/50 ul lyophilized powder
Buffer: PBS pH 7.5, contains 0.05% sodium azide	
Reconstitute powder in PBS at 1 mg/ml.	

Storage

Short-term: unopened, undiluted liquid vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Recommended Usage

Western Blotting (1:1K-5K for neat serum and 1-10 ug/ml for affinity pure using ECL technique) (1-2). Survivin is ~16 kDa protein. (see published refs using this antibody in 2).

ELISA (1:10K-1:100K; using 50-100 ng of control peptide/well).

Histochemistry & Immunofluorescence: We recommend the use of affinity purified antibody at 2-20 ug/ml. (see published refs using this antibody in 2).

Specificity & Cross-reactivity

Human survivin peptide SURV11-P has 90% sequence homology with the mouse TIAP/Survivin (3). No significant sequence homology is seen with EPR-1. Antibody cross-reactivity with survivin from other species is not known. The appropriate control immunogenic peptides are available to confirm specificity of antibodies.

General References: Ambrosini G et al (1997) Nature Med. 3, 917-921; Altieri DC et al (1994) J Biol. Chem. 269, 3139-3142; Altieri DC et al (1994) Biochem. 33, 13848-13855; Adida C et al (1998) Am. J Pathol. 152, 43-49; Lu C-D et al (1998) Cancer Res. 58, 1808-1812; Li F et al (1998) Nature 396, 580-584;

(2) Citations of ADI's Antibodies (see web site for updated list)

Beierle EA, 2005 Journal of Surgical Res WB
Ikeguchi M, 2002 Clin Cancer Res. 8, 3131-3136, WB
Kanda N, 2004, Oncogene 23, 4921 – 4929, IHC
Nemoto T, 2004, Exp Mol. Pathol. 76, 253-259, IHC
McManus DC, 2004, Oncogene23, 8105 – 8117, WB
Wittmann S, 2003, Cancer Res., 63: 93 - 99 WB,

*This product is for *in vitro* research use only.

SURV11-S-A-P 80529A