

Anti-Human SSA-60/Ro (60 kda) protein and controls

Cat. # SSA601-S	Anti-Human SSA-60/Ro (60 kda) protein antiserum	Size: 100 ul
Cat. # SSA601-C	Recombinant human SSA-60/Ro (60 kda) protein control for WB	Size: 100 ul

The Ro/SS-A antigen is comprised of an acidic 60 kDa protein that may exist in complex with RNA(80-112 bases). However, RNA is not required for SS-A antigenicity. Autoantibodies to SS-A antigen is found in a wide variety of connective tissue diseases but most frequently in Sjogren's syndrome (up to 96% cases have been reported to be positive), SLE (30-50% of patients), and 83% of mothers with isolated congenital heart block or neonatal lupus dermatitis, and 75% of patients with subacute cutaneous lupus. Most of these studies are based on tedious fluorescent ANA (FANA). Other techniques such as RIA, immunodiffusion, hemagglutination, electrophoresis, and immunoblotting are also used to define antibody specificity.

Antibodies generated against the nuclear constituents are known as antinuclear antibodies (ANA). This includes autoantibodies directed against the extractable (soluble in physiological buffers) nuclear antigen or ENA. The most prominent of ANAs/ENAs are autoantibodies which binds to ds-DNA, ss-DNA, histones, ribonucleoproteins (RNP) and the SS-A, SS-B, Sm antigens, Jo-1, and Scl-70. Two antibodies, anti-dsDNA and anti-Sm, appear to occur only in SLE. Others occur in a variety of autoimmune and mixed connective tissue diseases.

60 kDa SS-A/Ro ribonucleoprotein (60 kDa Ro protein) (60 kDa ribonucleoprotein Ro) (RoRNP) (Ro 60 kDa autoantigen) (TROVE domain family member 2) (Sjogren syndrome type A antigen) (SS-A) (Sjogren syndrome antigen A2).

Source of Antigen and Antibodies

Antigen	Human purified recombinant E. coli Ro-SS-A (538 aa, 60 Kda) protein (protein accession #P10155)
Ab Host/type	Rabbit, Polyclonal antiserum (cat # SSA601-S)
2-ab	Goat Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)
-ve control IgG	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

Cat # SSA601-C

Human Ro/SS-A (60 kda protein) was expressed in E. coli and purified (>95%). For Western blot +ve control (**Cat # SSA601-C**) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of **SSA601-C** for good visibility with rabbit antibody Cat # **SSA601-S**. Store at -20oC in suitable size

aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the **SSA601-C** solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. Do not freeze, thaw, or heat repeatedly

Form & Storage of Antibodies/Peptide Control

Unpurified antiserum

solution lyophilized powder
contains 0.05% sodium azide

Reconstitute powder in 100 ul PBS

Storage

Short-term: unopened, undiluted 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.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting (1:500-1:5K for antiserum using ECL technique).

ELISA: Control antigen can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (0.5-1 ug/ml for affinity pure).

Histochemistry & Immunofluorescence: Not tested. We recommend the use of 1;200-:1k diluted antiserum.

Specificity & Cross-reactivity

Anti-SS-A/Ro antiserum reacts with human SS-A.Ro with minimal reaction with other autoantigens. Antibody cross-reactivity in various species has not been studied. Recombinant purified human Ro/SS-A protein (#SSA601-C) is available as a control for Western.

General References: Deutscher SL (1988) PNAS 85, 9479-9483; Ben-Chetrit E (1989) J Clin. Invest. 83, 1284-1292;

*This product is for In vitro research use only.

Related material available from ADI

SS-A and SS-B, Scl70, recombinant proteins and antibodies

SSA601-S-C

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