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Recombinant Human RO-52/SS-A

CLPRO328
CLPRO328-2
CLPRO328-3
Lot:

Introduction: TRIM21 is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. The 52 kDa Ro protein is part of the RoSSA ribonucleoprotein, which includes a single polypeptide and one of four small RNA molecules. The RoSSA particle localizes to both the cytoplasm and the nucleus. Ro/SSA interacts with autoantigens in patients with Sjogren syndrome and systemic lupus erythematosus. Ribonucleoprotein particle is composed of a single polypeptide and one of four small RNA molecules. The RoSSA is present in all mammalian cells studied but has no known function. At least 2 isoforms are present in nucleated and red blood cells, and tissue specific differences in Ro/SSA proteins were identified.

Description: Recombinant Human RO-52 produced in *E.Coli* is a single, non-glycosylated, polypeptide chain having a molecular mass of 52kDa.
The RO-52 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Synonyms: 52 kDa Ro protein, Sjogren syndrome type A antigen, SS-A, Ro(SS-A), 52 kDa ribonucleoprotein autoantigen Ro/SS-A, Tripartite motif-containing protein 21, RING finger protein 81, TRIM21, RNF81, RO52, SSA1, SSA, RO-52.

Presentation: 10 µg (CLPRO328), 50 µg (CLPRO328-2), or 1 mg (CLPRO328-3), sterile filtered clear solution. The protein solution contains 6 M Urea, 500 mM NaCl and 10 mM Tris, pH 8.0.

Stability: Lyophilized RO-52 although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

Purity:

Greater than 90.0% as determined by both:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Protein content: Protein quantitation was carried out by using 0.25 - 2.0 mg/ml Bradford assay vs. BSA.

Western Blot: Strongly reactive with human anti RO/SS-A.

Continued...

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Amino Acid Sequence:

MASAA RL TMMWEEVTCPICLDPFVEPVSI ECGHSFCQECISQVGKGG
GSVCAVCRQRFL LKNLRPNRQLANMVNNLKEISQEAREGTQGERCA
VHGERLHLFCEKDGKALCWVCAQSRKHRDHAMVPLEEAAQEYQEKL
QVALGELRRKQELAEKLEVEIAIKRADWKKTVETQKSRIHAEFVQQKNF
LVEEEQRQLQELEKDEREQLRILGEKEAKLAQQSQALQELISELDRRC
HSSALELLQEVII VLERSES WN LKDL DITSPELRSVCHVPGLKKMLRTC
AVHITLDPDTANPWLILSEDRRQVRLGDTQQSIPGNEERFDSYPMVLG
AQHFHSGKH YWEVDVTGKEAWDLGVCRDSVRRKGHFLSSKSGFWT
IWLWNKQKYEAGTYPQTPLHLQVPPCQVGIFLDYEAGMVSFY NITDHGS
LIYSFSECAFTGPLRPFFSPGFNDGGKNTAPLTL CPLNIGSQGSTDY

Laboratory Reagent For Research Use Only

JV 03/24/10