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**Product Name: KD-Validated SSR1 Recombinant Rabbit Monoclonal Antibody****Catalog #: KVA00347**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM                                                                      |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                                      |
|-------------------------|--------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000 |
| <b>Molecular Weight</b> | Calculated MW: 32.2kDa               |

**Antigen Information**

|                          |                                                                                                                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | SSR1                                                                                                                                                                                                                                                                                                          |
| <b>Alternative Names</b> | SSR1; Signal Sequence Receptor Subunit 1; TRAPA; Translocon-Associated Protein Subunit Alpha; Signal Sequence Receptor Subunit Alpha; Signal Sequence Receptor, Alpha; SSR-Alpha; Translocon-Associated Protein Alpha Subunit; Translocon-Associated Protein Alpha; SSR Alpha Subunit; TRAP Alpha; TRAP-Alpha |
| <b>Gene ID</b>           | 6745.0                                                                                                                                                                                                                                                                                                        |
| <b>SwissProt ID</b>      | P43307                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>         | A synthesized peptide derived from human TRAP alpha                                                                                                                                                                                                                                                           |

**Background**

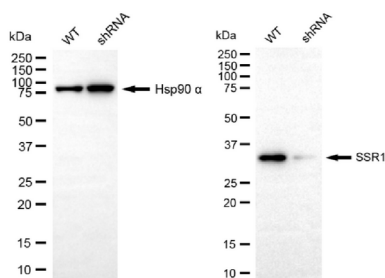
The signal sequence receptor (SSR) is a glycosylated endoplasmic reticulum (ER) membrane receptor associated with protein

translocation across the ER membrane. The SSR consists of 2 subunits, a 34-kD glycoprotein encoded by this gene and a 22-kD glycoprotein. This gene generates several mRNA species as a result of complex alternative polyadenylation. This gene is unusual in that it utilizes arrays of polyA signal sequences that are mostly non-canonical. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2014]

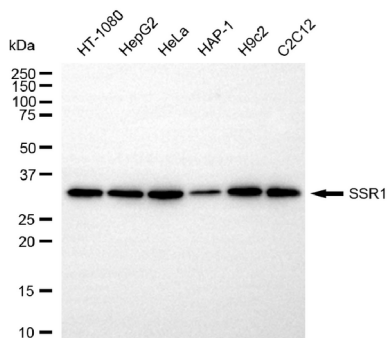
## Research Area

Signal Transduction

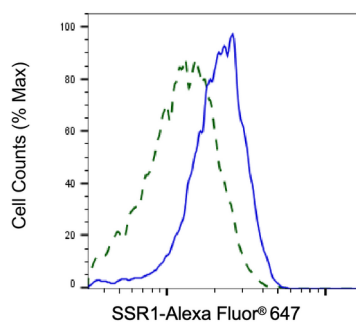
## Image Data



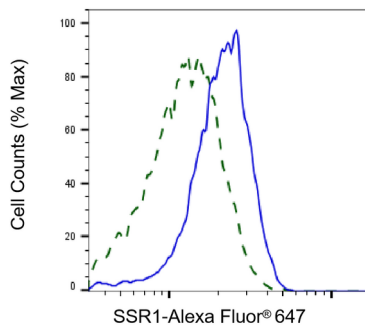
Western blotting analysis using SSR1 antibody (KVA00347). SSR1 expression in wild-type (WT) and SSR1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with SSR1 antibody (KVA00347, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using SSR1 antibody (KVA00347). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SSR1 antibody (KVA00347, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Validation of SSR1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with SSR1 antibody (KVA00347, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of SSR1 expression in HepG2 cells using SSR1 antibody (KVA00347, 1:2,000). Green, isotype control; red, SSR1.