# Anti-Sm [Y12]

Catalogue number: 155237

Sub-type: Images:

#### Contributor

Inventor:

**Institute:** Yale University

Images:

### **Tool details**

#### \*FOR RESEARCH USE ONLY

Name: Anti-Sm [Y12]

Alternate name:

Class: Monoclonal

Conjugate: Unconjugated

Cancer Tools.org **Description:** Monoclonal antibody used in quantitative radioimmuno-assays in SLE patients. Background and Research Application Sm is an autoantigen on a series of particles composed of RNA and protein. It is one of several nuclear proteins that are found commonly among U1, U2, U4/U6, and U5 small ribonucleoprotein particles (snRNPs). These snRNPs are involved in pre-mRNA splicing, and the encoded protein may also play a role in pre-mRNA splicing or snRNP structure. Sm is involved in the pathogenesis of Systemic lupus erythematosus (SLE), with antibodies to Sm being found in 20-30% of patients with SLE. This antibody can aid in the titration of autoantibody activity in the sera of SLE patients. Anti-Sm antibody can be used to help understand the role of snRNPs, particularly within disease.

Purpose: Parental cell: **Organism:** Tissue: Model: Gender:

Isotype: IgG3 kappa

Reactivity: Selectivity: Host: Mouse

Immunogen: P27048

Immunogen UNIPROT ID: P27048

Sequence:

Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

# **Target details**

Target: Sm

#### **Target alternate names:**

**Target background:** Monoclonal antibody used in quantitative radioimmuno-assays in SLE patients Background and Research Application Sm is an autoantigen on a series of particles composed of RNA and protein. It is one of several nuclear proteins that are found commonly among U1, U2, U4/U6, and U5 small ribonucleoprotein particles (snRNPs). These snRNPs are involved in pre-mRNA splicing, and the encoded protein may also play a role in pre-mRNA splicing or snRNP structure. Sm is involved in the pathogenesis of Systemic lupus erythematosus (SLE), with antibodies to Sm being found in 20-30% of patients with SLE. This antibody can aid in the titration of autoantibody activity in the sera of SLE patients. Anti-Sm antibody can be used to help understand the role of snRNPs, particularly within disease.

Molecular weight:

Ic50:

# **Applications**

**Application:** 

**Application notes:** 

# Handling

Format: Liquid

Concentration: 0.9-1.1 mg/ml

Passage number: Growth medium: Temperature: Atmosphere: Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide

Storage conditions:

4° C

Shipping conditions: Shipping at 4° C

### Related tools

**Related tools:** 

## References

**References:** Campisi et al. 2016. Nat Immunol. 17(9):1084-92. PMID: 27455420. ; Feng et al. 2015. Nature. 528(7580):132-136. PMID: 26605529. ; Guo et al. 2015. Nat Immunol. 16(10):1051-9. PMID: 26322482. ; Janeway CA et al. 1984. J Immunol. 132(2):662-7. PMID: 6228596.

