

## Product overview

product name	Anti S-tag mouse monoclonal antibody
catalog No.	ATMA10085Mo
Category	Primary antibody
Host	Mouse
Species specificity	Recognizes S tagged fusion proteins.
Tested applications	WB, ELISA
Clonality	Monoclonal
Clone No.	1F1-C9
Conjugation	Unconjugated
Immunogen	Synthetic peptide KETAAAKFERQHMDs conjugated KLH.
Alternative Names	S peptide epitope
Uniprot ID	/

## Product performance

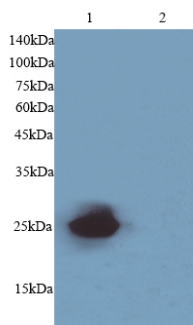
Form	Liquid
Buffer	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN <sub>3</sub> , 50% glycerol.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 4 °C for frequent use. Store at -20 to -80 °C for twelve months from the date of receipt.
Concentration	0.5mg/ml
Isotype	IgG1
MW	/
Purity	Protein G purification

## Dilution range

WB: 1:8000-1:16000

## Product experiment picture





Primary: Anti-S tag antibody 1F1 at  
1/16000 dilution

Lysate:

Lane 1: lysate of E.coli expressed  
S tag fusion protein, 25kDa.

Lane 2: Negative control, lysate of  
E.coli

## Product background

S-tag is the name of an oligopeptide derived from pancreatic ribonuclease A (RNase A). If RNase A is digested with subtilisin, a single peptide bond is cleaved, but the resulting two products remain weakly bound to each other and the protein, called ribonuclease S, remains active although each of the two products alone shows no enzymatic activity. The N-terminus of the original RNase A, also called S-peptide, consists of 20 amino acid residues, of which only the first 15 are required for ribonuclease activity. This 15 amino acids long peptide is called S15 or S-tag. The amino acid sequence of the S-tag is: Lys-Glu-Thr-Ala-Ala-Ala-Lys-Phe-Glu-Arg-Gln-His-Met-Asp-Ser. It is believed that the peptide with its abundance of charged and polar residues could improve solubility of proteins it is attached to [citation needed]. Moreover, the peptide alone is thought not to fold into a distinct structure. On DNA-level the S-tag can be attached to the N- or C-terminus of any protein. After gene expression, such a tagged protein can be detected by commercially available antibodies.

