



**Catalog Number:** MO22206

**Host:** Mouse

**Product Type:** Mouse Monoclonal IgG1

**Species Reactivity:** Cow

**Immunogen Sequence:** Peptide derived from the N-terminal sequence of pET30a(+)

**Format:** Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN<sub>3</sub>

**Applications:** Western Blot: 1:2,000-5,000

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

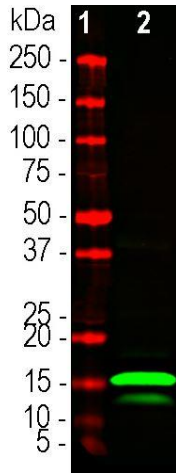
**Storage:** Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

### Application Notes

#### Description/Data

The S-tag is one of many intrinsically unstructured peptides which only adopts a defined structure on binding to a structured substrate. The S-tag is incorporated into many vectors including the pET29 and 30 series, pCITE-3 and pCITE-4. The S-tag sequence was incorporated into many expression systems and is detectable with certain antibody reagents allowing researchers to check the size and correct expression of recombinant proteins. Proteins including the S-tag can be purified using a column to which is bound the RNase-S-prot. The modern nomenclature for the enzyme is RNAse A or RNAse 1.

This antibody was made against a synthetic 53 amino acid peptide which is the sequence included in pET30a(+) and other vectors. A C-terminal cysteine was added to allow coupling to maleate activated KLH which was used as the immunogen. Numerous clones were screened by their ability to bind the immunogen and then re-screened for inhibition of this binding by the S-tag peptide. The bovine S-tag sequence is not well conserved across species boundaries, so this antibody is not likely to be useful as a general marker for RNAse-1 from other species.



*Image: Western blot analysis of bovine pancreas tissue lysate using mouse mAb to S-tag protein, MO22206, dilution 1:2,000 in green: [1] protein standard (red), [2] 40µg of bovine pancreas. Strong band at about 15 kDa corresponds to intact RNase A containing the S-tag sequence.*

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