



Catalog Number:	MO22203	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 NaN3
Applications:	Immunofluorescence: N/A Western Blot: 1:2,000-5,000		
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. 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.		

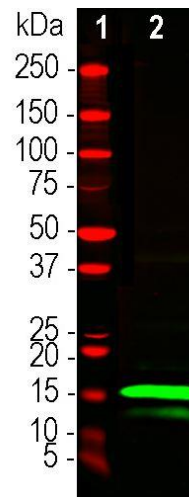
Application Notes

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.

Image: Western blot analysis of bovine pancreas tissue lysate using mouse mAb to S-tag protein, MO22203, dilution 1:2,000 in green: [1] protein standard (red), [2] 40µg of bovine pancreas extract. A strong band at about 15kDa corresponds to S-tag sequence found in bovine pancreatic RNase 1.



FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.-V1-10/2013