

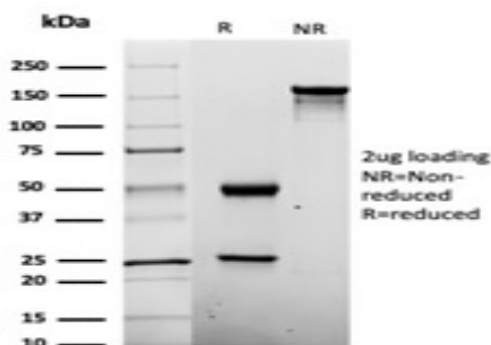
Penicillin (Group of beta-Lactam Antibiotics)

Mouse Monoclonal Antibody [Clone Pen-9]

Catalog No	Format	Size	Price (USD)
MSM1-231-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
MSM1-231-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
MSM1-231-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	Not Applicable
Human SwissProt	Not Applicable
Human Unigene	Not Applicable
Human Gene Symbol	
Human Chromosome Location	
Synonyms	Ampicillin; Benzylpenicillin; PCN; Penicilin; Penicillin G; Phenoxymethylpenicillin

Immunogen	Penicilloyl-transferrin conjugate
Host / Ig Isotype	Mouse / IgG1, kappa
Mol. Weight of Antigen	356 Daltons
Cellular Localization	Depends on the target
Species Reactivity	Benzylpenicillin
Positive Control	Biotinylated proteins in solution or on tissues



SDS-PAGE Analysis Purified Penicillin Mouse Monoclonal Antibody (Pen-9) Confirmation of Integrity and Purity of Antibody.

Specificity & Comments

This antibody reacts mainly with the thiazolidine ring of penicillin, but not with the lactam ring. May react with the fused beta lactam/thiazolidine ring of the penicilloyl group and would appear sensitive to modification of the shared N atom of the lactam/thiazolidine ring by substitution or conjugation. It appears insensitive to the structure of the side chain of the penicilloyl group. This antibody reacts with the following penicillin; Benzylpenicillin, Ampicillin, Amoxicillin and 6-Aminopenicillanic acids. Penicillin is a group of Beta-lactam antibiotics used in the treatment of bacterial infections caused by susceptible, usually Gram-positive, organisms. -lactam antibiotics work by inhibiting the formation of peptidoglycan cross-links in the bacterial cell wall, which results in cytolysis. This antibody is useful in the study of allergy to penicillin.

Known Applications & Suggested Dilutions

ELISA (For coating, use Ab at 1-5ug/ml order Ab without BSA) Optimal dilution for a specific application should be determined.

Key References

1. de Haan P; de Jonge AJ; Verbrugge T; Boorsma DM. Three epitope-specific monoclonal antibodies against the hapten penicillin. International Archives of Allergy and Applied Immunology, 1985, 76(1):42-6.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide store at 2 to 8 °C. Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

Warranty

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.