

Product datasheet for **BM2104**

Caffeine Mouse Monoclonal Antibody [Clone ID: 9401]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9401
Applications:	ELISA, R
Recommended Dilution:	Competitive RIA or ELISA for caffeine quantitation.
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Caffeine-3-KLH
Specificity:	Cross-reactivity: Caffeine 100% Theophylline 11.4% Theobromine 2.1% 3-Methylxanthine 0.4% 1, 7-Dimethylxanthine 0.3% 8-Chlorotheophylline 0.3% Xanthine, Uric Acid, 1-Methyluric Acid, 8-Methylxanthine, 7-Methylxanthine and 1-Methylxanthine, all under 0.05%
Formulation:	PBS, pH 7.4, containing 0.09 % Sodium azide as preservative State: Purified State: Liquid ascites
Concentration:	lot specific
Purification:	Protein A column chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8 °C for up to six month or at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from depatch.



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Background:

Caffeine is a naturally occurring chemical that is present in tea, cola nuts, guarana and coffee. It is able to stimulate the central nervous system, cardiac muscle, stimulate the respiratory system, act as a diuretic and delay fatigue.

The chemical structure for caffeine is 1,3,7-tri methylxanthine. As a modified purine it can act as an inhibitor of enzymes that use compounds containing adenine or guanine as substrates.