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**Anti-Conjugated Methionine
RAT POLYCLONAL**

Catalog Number: AB-T037
Quantity: 50 microliters
Format: Lyophilized and reconstituted with deionized water / 50% glycerol
Host: Rat
Isotype: IgG
Immunogen: Synthetic methionine conjugated to bovine serum albumin

Specificity and Preparation:

Antiserum previously preabsorbed on protein carriers and purified by ammonium sulfate precipitation.

This antibody targets conjugated methionine. **This antibody does not recognize free methionine.**

Using a conjugate Methionine-Glutaraldehyde-BSA, antibody specificity was performed with an ELISA test by competition experiments with the following compounds:

COMPOUND	CROSS REACTIVITY §
Methionine-G-BSA	1
Homocysteine-G-BSA	1/>1,000
Homocysteic acid-G-BSA	1/>10,000
Cystathionine-G-BSA	1/>10,000
Cysteine-G-BSA	1/>10,000
Glutamate-G-BSA	1/>10,000

G = Glutaraldehyde, BSA = Bovine Serum Albumin

§ Methionine-G-BSA concentration/unconjugated or conjugated analogs concentration at half displacement.

Usage and Storage:

Applications include ELISA (1/1,000-1/5,000), immunohistochemistry / immunocytochemistry (1/1,000-1/5,000), and immunoblotting (western blot 1/1,000-1/2,000). Fixation of tissue for use with these antibodies should be done with glutaraldehyde. The use of paraformaldehyde in conjunction with glutaraldehyde may improve staining results. Store the antibody at 4°C for one month or -20°C in undiluted aliquots for up to one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

Available Control(s): L-Methionine-G-BSA

References:

1. Amara A, Coussemaq M, Geffard M (1995) Molecular detection of methionine in rat brain using specific antibodies. *Neurosci Lett* 185(3):147-150.

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