Advanced Targeting Systems

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Anti-Conjugated D-Glutamic Acid (D-Glutamate)

RABBIT POLYCLONAL

Catalog Number: AB-T045
Quantity: 50 microliters
Format: Lyophilized and reconstituted with deionized water / 50% glycerol
Host: Rabbit
Isotype: IgG
Immunogen: Synthetic D-glutamic acid conjugated to bovine serum albumin

Specificity & Preparation: Antiserum previously preabsorbed on protein carriers and purified by ammonium sulfate precipitation.
This antibody targets conjugated D-Glutamic acid. **This antibody does not recognize free D-Glutamic acid.** Using a conjugate D-Glutamic acid-Glutaraldehyde-BSA antibody specificity was performed with an ELISA test by competition experiments with the following compounds:

Usage: Applications include ELISA (1/1,000-1/5,000), immunocytochemistry, immunohistochemistry, 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.

Storage: 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 5-10 seconds in a microfuge before use.

COMPOUND	CROSS REACTIVITY §
D-Glutamate-G-BSA	1
L-Glutamate-G-(Pc)	1/>50,000
L-Aspartate-G-(Pc)	1/>50,000
D-Aspartate-G-(Pc)	1/>50,000
GABA-G-(Pc)	1/>50,000
Taurine-G-(Pc)	1/>50,000
D-Cysteine-G-(Pc)	1/>50,000
D-Methionine-G-(Pc)	1/>50,000
D-Tryptophan-G-(Pc)	1/>50,000
D-Tyrosine-G-(Pc)	1/>50,000

G = Glutaraldehyde, GABA = Gamma-Aminobutyric Acid, BSA = bovine serum albumin
§ Glutamate-G-BSA concentration/other conjugated amino acids concentration at half displacement.

Scan to view all product references.

Selected References:

1. Sinakevitch I, Farris SM, Strausfeld NJ (2001) Taurine-, aspartate- and glutamate-like immunoreactivity identifies chemically distinct subdivisions of Kenyon cells in the cockroach mushroom body. J Comp Neurol 439(3):352-367.

To view protocol(s) for this and other products please visit: www.ATSbio.com/library/protocols