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### Anti-Conjugated L-Glutamate RABBIT POLYCLONAL

**Catalog Number:** AB-T08  
**Quantity:** 50 microliters  
**Format:** Lyophilized and reconstituted with deionized water / 50% glycerol  
**Host:** Rabbit  
**Isotype:** IgG  
**Immunogen:** Synthetic L-Glutamate conjugated to bovine serum albumin

#### Specificity and Preparation:

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

This antibody targets conjugated L-glutamate. **This antibody does not recognize free L-glutamate.**

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

COMPOUND	CROSS REACTIVITY §
L-Glutamate-G-BSA	1
D-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

G = Glutaraldehyde, GABA = Gamma-Aminobutyric Acid, BSA = bovine serum albumin

§ L-Glutamate-G-BSA concentration/other conjugated amino acid concentration at half displacement.

#### Usage and Storage:

Applications include ELISA (1/1,000-1/5,000), immunohistochemistry (1/1,000-1/5,000), immunocytochemistry, 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-Glutamate-G-BSA

#### References:

1. Rajaofetra N, Passagia JG, Marlier L, Poulat P, Pellas F, Sandillon F, Verschuere B, Gouy D, Geffard M, Privat A. (1992) Serotonergic, noradrenergic and peptidergic innervation of onuf's nucleus of normal and transected spinal cords of Baboons (Papio-Papio). J Comp Neurol 318:1-17.
2. Sinkevitch-Pean I, Plotnikova SI, Geffard M, Bockaert J, Grau Y. (1998) Glutamate-like immunoreactivity in the adult brain of Drosophila melanogaster. Eur J Neurosci 10:285.
3. Sinkevitch-Pean I, Geffard M, Plotnikova SI (2001) [Localization of glutamate in the nervous system of Drosophila melanogaster: immunocytochemical study]. Article in Russian. Zh Evol Biokhim Fiziol 37 (1):64-68.
4. Sinkevitch 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.

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