**ADVANCED**
**TARGETING**
**SYSTEMS**

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## Anti-Conjugated L-Aspartate
## RABBIT POLYCLONAL

| | |
|---|---|
| **Catalog Number:** | AB-T022 |
| **Quantity:** | 50 microliters |
| **Format:** | Lyophilized and reconstituted with deionized water / 50% glycerol |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Immunogen:** | Synthetic L-aspartic acid 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-aspartic acid (L-Aspartate). **This antibody does not recognize free L-Aspartate.**

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

| COMPOUND | CROSS REACTIVITY [§] |
|---|---|
| L-aspartic acid-G-BSA | 1 |
| L-Glutamic-G-BSA | 1/30,000 |
| GABA-G-BSA | 1/>100,000 |

G = Glutaraldehyde, BSA = Bovine Serum Albumin
[§] L-aspartic acid-G-BSA concentration/other conjugated amino acids concentration at half displacement.

**Usage and Storage:**

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

**References:**

1. Campistron G, Buijs RM, Geffard M (1986) Specific antibodies against aspartate and their immunocytochemical application in the rat brain. Brain Res 365(1):179-184.
2. 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/protocols**

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