Anti-Alpha-II Spectrin

Catalog # / Size: 803201 / 200 µl
Previously: Covance Catalog# SIG-39702
Signet Catalog# 9702-02, 9702-05, 9702-10
Clone: D8B7
Isotype: Mouse IgG2b
Immunogen: Clone D8B7 was developed against the alpha II spectrin SH3 domain (Xu et al., 2001)².
Reactivity: Human
Preparation: Ascites
Storage: Store at -20°C or below. Upon initial thawing, apportion into working aliquots and store at -20°C or below. Avoid repeated freeze-thaw cycles to prevent denaturing the antibody. Do not store in frost-free freezers.

Applications:
Applications: WB, IF, IHC, ELISA
Recommended Usage: Each lot of this antibody is quality control tested by Western blotting.
The optimal working dilution should be determined for each specific assay condition.
- WB: 1:100 - 1:1,000
- IF: 1:100 - 1:500
- IHC: 1:10 - 1:50 (Frozen only)

Application Notes: This antibody is effective in immunoblotting (WB), immunofluorescence (IF), immunohistochemistry (IHC) and ELISA.

Clone D8B7 is a specific marker for human, rat and mouse alpha II spectrin or fodrin. In cerebellar cell cultures, it labels axons and periphery of cell bodies consistent with localization of fodrin (reviewed in Bennett, 1993; Goodman, 1995 & De Matteis, 2000)⁴, ⁶, ⁸. It does not cross-react with alpha I (erythroid) spectrin SH3 domain.

This antibody was developed against a recombinant alpha II spectrin (non-erythroid spectrin or fodrin) SH3 domain. It was subsequently purified via ammonium sulfate precipitation.

Application References:

Description: The spectrins are a family of widely distributed cytoskeletal proteins which are involved in actin crosslinking. Spectrin α-chain heterodimerizes with tissue-specific β-chains. It is specifically expressed in nonerythrocytic cells. The protein has been implicated in other cellular functions including DNA repair and cell cycle regulation. Mutations in the gene are the cause of early infantile epileptic encephalopathy. Fodrin, a spectrin that seems to be involved in secretion, interacts with calmodulin in a calcium-dependent manner and is thus a candidate for the calcium-dependent movement of the cytoskeleton at the membrane.

Other Names: Spectrin alpha chain, brain, alpha-II spectrin, fodrin alpha chain, spectrin, non-erythroid alpha chain, EL2, SPTA1,
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