Description:
Monoclonal Antibody against Human Alpha-I Spectrin
(Formerly Signet Catalog Nos: 9700-02, 9700-05, 9700-10)

Also Known As:
spectrin alpha chain, erythrocyte; alpha-I spectrin; erythroid alpha-spectrin

Intended Use:
**Research Use Only (RUO)**
This product is sold for laboratory research use only, not for human or in-vivo use.

Form:
Tissue Culture Supernatant (in PBS + 0.1% NaN3)

Clone:
17C7

Host:
Mouse

IsoType:
IgG1

Species Reactivity:
Human

[Ab]:
1 mg/mL

Specificity:
Signet’s anti-human spectrin (Clone 17C7) is developed against the alpha I spectrin SH3 domain (Xu et al., 2000). Clone 17C7 is a specific marker for human, rat and mouse alpha I spectrin. It reacts with erythroid spectrin in red blood cells and in cerebellum. It does not crossreact with alpha II (nonerythroid) spectrin SH3 domain or recombinant human fodrin SH3 domain. In cerebellar cell cultures, clone 17C7 labels cell bodies consistent with localization of erythroid spectrin. In NIH 3T3 cells, clone 17C7 reacts with a 200 kDa protein which is a candidate marker of endocytic vesicles called macropinosomes (Xu et al., 2000 & 2001, Lamaze & Schmid, 1995).

This antibody was developed against a recombinant alpha I spectrin (erythroid spectrin) SH3 domain. It was subsequently purified via ammonium sulfate precipitation.

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

Suggested Working Dilution:
The optimal working dilution should be determined for each specific assay condition.
- Western blot: 1:1,000-1:10,000
- IF: 1:100-1:500
- IHC: 1:10-1:50 (Frozen only)
- ELISA: 1:100,000-1:1,000,000

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.

See reverse side for additional information
References:


Warranty/Conditions:
Covance products may not be resold or modified for resale without prior written approval. All sales are subject to Covance Antibody Products Terms and Conditions of Sale.

Datasheet Revision Date:
11/6/2011