Revision 1

Cleaved α-Fodrin (Asp1185) Antibody

Store at -20C

#2121

Cell Signaling TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	150	Rabbit	#Q13813	6709

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Cleaved alpha-Fodrin (Asp1185) Antibody detects endogenous levels of the large fragment of alpha-fodrin resulting from cleavage at aspartic acid 1185. The antibody does not recognize full length alpha-fodrin.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues surrounding Asp1185 in human alpha-fodrin. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Fodrin (also named nonerythroid spectrin) is a universally expressed membrane-associated cytoskeletal protein consisting of alpha- and beta-subunits (1). This protein is important for maintaining normal membrane structure and supporting cell surface protein function (1). Alpha-fodrin is one of the primary targets cleaved by caspases during apoptosis. The full length 240 kDa protein can be cleaved at several sites within its sequence by activated caspases to yield amino-terminal 150 kDa, carboxy-terminal 120 kDa and 35 kDa major products (2-5). Cleavage of alpha-fodrin leads to membrane malfunction and cell shrinkage.

Background References

1. Bennett, V. and Gilligan, D.M. (1993) *Annu. Rev. Cell Biol.* 9, 27-66.
2. Vanags, D. M. et al. (1996) *J. Biol. Chem.* 271, 31075-31085.
3. Cryns, V. L. et al. (1996) *J. Biol. Chem.* 271, 31277-31282.
4. Wang, K. K. et al. (1998) *J. Biol. Chem.* 273, 22490-22497.
5. Janicke, R. U. et al. (1998) *J. Biol. Chem.* 273, 15540-15545.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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Limited Uses

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