E91572

ANXA2Polyclonal Antibody

Catalog Number: E91572
Amount: 100ul
Background: Annexin A2 (ANXA2), also known as lipocortin II or calpactin-1 heavy chain, is a 36 kDa member of the annexin superfamily that binds phospholipids and other proteins in a calcium-dependent manner via annexin repeats (1). Annexin A2 contains four such repeats through which it mediates protein-protein and protein-lipid interactions (1-4). It forms a constitutive heterotetramer with S100A10, acting as a bridge between the actin cytoskeleton, plasma membrane, and endocytotic vesicle machinery (5-7). Originally identified as a protein inhibitor of phospholipase A2, annexin A2 has subsequently been shown to interact with an array of protein and non-protein partners, including F-actin, spectrin, SNARE complexes, RNA, and virus particles (4,6,8,9). Annexin A2 has also been shown to have receptor-like activity and is detected on the surface of macrophages and vascular endothelial cells where it mediates macrophage activation and Factor Xa signaling, respectively (10-13). Upregulation of annexin A2 at the cell surface is thought to be modulated by phosphorylation at Tyr23 by Src (14-18). Interestingly, phosphorylation at Tyr23 has recently been shown to be required for cell surface expression of annexin A2 where it mediates motility, invasiveness, and overall metastatic potential of certain pancreatic cancer cells (19,20).
Species: Rabbit
Isotype: IgG
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms: ANX2; ANX2L4; CAL1H; LIP2; LPC2; LPC2D; P36; PAP-IV;
Immunogen: Recombinant proteinof human ANXA2
Purification: Affinity purification
Reactivity: H M R
Applications: WB IHC
Molecular Weight: 39kDa
Swiss-Prot No. : P07355
Gene ID: 302
References: 1. Barton, G.J. et al. (1991) Eur J Biochem 198, 749-60. 2. Gerke, V. and Weber, K. (1985) EMBO J 4, 2917-20. 3. Glenney, J.R. and Tack, B.F. (1985) Proc Natl Acad Sci USA 82, 7884-8. 4. Gerke, V. and Weber, K. (1984) EMBO J 3, 227-33. 5. Illien, F. et al. (2010) Biochim Biophys Acta 1798, 1790-6. 6. Umbrecht-Jenck, E. et al. (2010) Traffic 11, 958-71. 7. Jung, M.J. et al. (2010) Exp Cell Res 316, 1234-40. 8. Filipenko, N.R. et al. (2004) J Biol Chem 279, 8723-31. 9. Wright, J.F. et al. (1994) Biochem Biophys Res Commun 198, 983-9. 10. Bhattacharjee, G. et al. (2008) Circ Res 102, 457-64. 11. Pizzo, S.V. (2008) Circ Res 102, 389-91. 12. Swisher, J.F. et al. (2007) J Leukoc Biol 82, 1174-84. 13. Deora, A.B. et al. (2004) J Biol Chem 279, 43411-8. 14. Huang, K.S. et al. (1986) Cell 46, 191-9. 15. Erikson, E. et al. (1984) Mol Cell Biol 4, 77-85. 16. Glenney, J.R. (1985) FEBS Lett 192, 79-82. 17. Morel, E. and Gruenberg, J. (2009) J Biol Chem 284, 1604-11. 18. de Graauw, M. et al. (2008) Mol Cell Biol 28, 1029-40. 19. Nedjadi, T. et al. (2009) Br J Cancer 101, 1145-54. 20. Zheng, L. et al. (2011) PLoS One 6, e19390.

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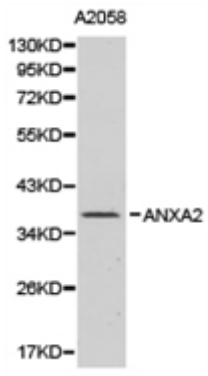
WB 1:500 - 1:2000
IHC 1:50- 1:200



Western blot analysis of extracts of A2058cell lines, using ANXA2 antibody.

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