Anti-Annexin V Antibody [JF50-11]

ET1702-62

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, FC
Molecular Wt:	Predicted band size: 36 kDa
Clone number:	JF50-11

Description: The annexin family of calcium-binding proteins is composed of at least ten mammalian genes and is characterized by a conserved core domain, which binds phospholipids in a Ca^{2+}-dependent manner, and a unique amino-terminal region, which may confer binding specificity. Annexin family members have been implicated as regulators of such diverse processes as ion flux, endocytosis and exocytosis, and cellular adhesion. For example, the crystal structure of Annexin III has suggested a hydrophilic amino-terminus with possible Ca^{2+} channel activity. Similarly, Annexin V has ion channel properties. Annexin IV, also referred to as endonexin, functions to regulate Cl-flux by mediating calmodulin kinase II (CaMKII) activity and Annexin V has been shown to regulate PKC activity. Annexin V is ubiquitously expressed at high levels in tissues and cells grown in tissue culture, while Annexin VIII exhibits a more limited distribution. Where co-expressed in the same tissues, Annexin VIII is often expressed at a 100-fold lower level than Annexin V. However, Annexin VIII is preferentially expressed in acute promyelocytic leukemia (APL) cells, which may relate to its role in hematopoietic cell differentiation.

Immunogen: Synthetic peptide within Human Annexin V aa 281-320 / 320.

Positive control: HeLa cell lysate, HepG2 cell lysate, human liver tissue lysate, NIH/3T3 cell lysate, C2C12 cell lysate, mouse liver tissue lysate, C6 cell lysate, PC-12 cell lysate, Hela.

Subcellular location: Cytosol, collagen-containing extracellular matrix, endothelial microparticle, extracellular exosome, extracellular region, external side of plasma membrane, cytoplasm, focal adhesion, intracellular, membrane.

Database links: SwissProt: P08758 Human | P48036 Mouse | P14668 Rat

Recommended Dilutions:

WB	1:1,000
FC	1:50-1:100

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

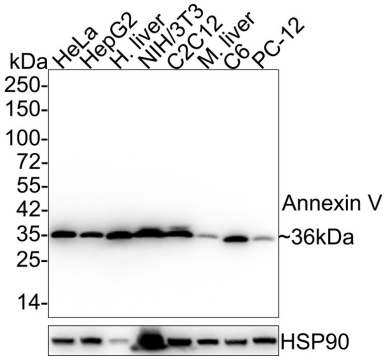

Fig1: Western blot analysis of Annexin V on different lysates with Rabbit anti-Annexin V antibody (ET1702-62) at 1/1,000 dilution.

Lane 1: HeLa cell lysate
Lane 2: HepG2 cell lysate
Lane 3: Human liver tissue lysate
Lane 4: NIH/3T3 cell lysate
Lane 5: C2C12 cell lysate
Lane 6: Mouse liver tissue lysate
Lane 7: C6 cell lysate
Lane 8: PC-12 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 36 kDa
Observed band size: 36 kDa

Exposure time: 5 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1702-62) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

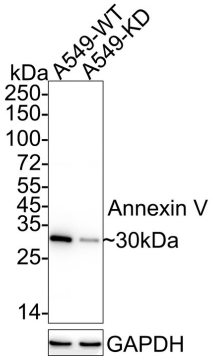

Fig2: Western blot analysis of Annexin V on different lysates with Rabbit anti-Annexin V antibody (ET1702-62) at 1/1,000 dilution.

Lane 1: A549-WT cell lysate
Lane 2: A549-KD Annexin V cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 36 kDa
Observed band size: 30 kDa

Exposure time: 6 seconds; ECL: K1801;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1702-62) at 1/1,000 dilution was used in 5% BSA at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

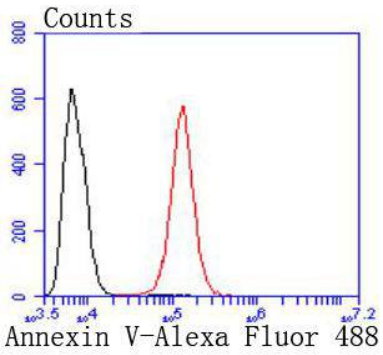

Fig3: Flow cytometric analysis of Annexin V was done on Hela cells. The cells were fixed, permeabilized and stained with the primary antibody (ET1702-62, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Rabbit IgG Secondary antibody at 1/1000 dilution for 30 minutes.Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Crabbé A et al. Recellularization of decellularized lung scaffolds is enhanced by dynamic suspension culture. PLoS One 10:e0126846 (2015).
2. Tome ME et al. Identification of P-glycoprotein co-fractionating proteins and specific binding partners in rat brain microvessels. J Neurochem 134:200-10 (2015).