

Active Recombinant Mouse Anxa2 Protein, His-tagged

Cat. No. Anxa2-3494M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Anxa2 Protein, His-tagged, expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	2-339 aa
Description	Annexin A2 (ANXA2) is a calcium-regulated membrane-binding protein with heightened calcium affinity in the presence of anionic phospholipids. Known for its potential involvement in the heat-stress response, ANXA2 operates as a heterotetramer, comprising two light chains of S100A10/p11 and two heavy chains of ANXA2/p36. It inhibits PCSK9-enhanced LDLR degradation, potentially through translational mechanisms, while also competing with LDLR for PCSK9 binding. ANXA2 interacts with various proteins, including ATP1B1, DYSF, COCH, and CEACAM1, with the latter interaction being regulated by CEACAM1 phosphorylation. Moreover, ANXA2 interacts with PCSK9, forming a complex that hinders LDLR degradation. Additionally, it associates with APPL2 and APPL1, facilitating the targeting of APPL2 to endosomes in parallel with RAB5A. The intricate network of ANXA2 interactions underscores its versatile role in cellular processes and regulatory pathways. Annexin A2/ANXA2 Protein, Mouse (His) is the recombinant mouse-derived Annexin A2/ANXA2 protein, expressed by E. coli, with N-His labeled tag. The total length of Annexin A2/ANXA2 Protein, Mouse (His) is 338 a.a., with molecular weight of ~39.6 kDa.

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Tag	N-His
Form	Lyophilized powder
Bio-activity	Measured in a cell proliferation assay using A549 cells. The ED50 for this effect is 0.1183 ng/mL, corresponding to a specific activity is 8.453×10 ⁶ units/mg.
Molecular Mass	39.6 kDa
AA Sequence	STVHEILCKLSLEGDHSTPPSAYGSVKPYTNFDAERDALNIETAVKTKGVDEVTIVNIL TNRSNVQRQDIAFAYQRRTKKELPSALKSALSGHLETVILGLLKTPAQYDASELKAS MKGLGTDEDSLIEIICSRTNQELQEINRVYKEMYKTDLEKDIISDTSGDFRKL MVALAK GRR AEDG SVIDYELIDQDARELYDAGVKRKGTDV PKWISIMTERSVCHLQKV FERYK SYSPYDMLESIKKEVKGDLENAFLNLVQCIQNKPLYFADRLYDSMKGKGTRDKVLIRI MVS RSEVDMLKIRSEFKRKYGKSLYYYIQQDTKGDYQKALLYLCGGDD
Purity	> 95% as determined by reducing SDS-PAGE
Storage	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, 4 mM DTT, pH 7.4 or 20 mM PBS, 150 mM NaCl, pH 8.0.
Shipping	Room temperature in continental US; may vary elsewhere.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

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GENE INFORMATION

Gene Name Anxa2 annexin A2 [Mus musculus (house mouse)]

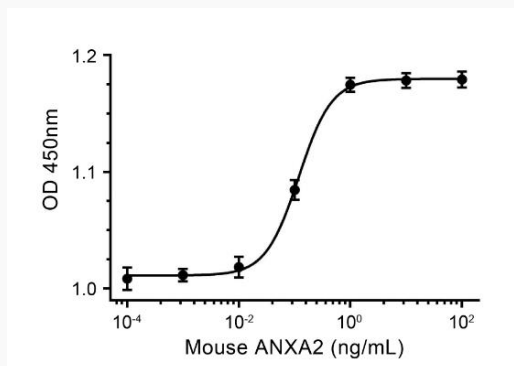
Official Symbol Anxa2

Synonyms Chromobindin-8; Lipocortin II; PAP-IV; ANX2; ANX2L4; CAL1H; LPC2D; ANXA2; Annexin A2; Annexin II; LIP2PAP-IV; LPC2D; LPC2DP36; p36; Anxa2

Gene ID 12306

UniProt ID Q542G9

Measured in a cell proliferation assay using A549 cells. The ED50 for this effect is 0.1183 ng/mL, corresponding to a specific activity is 8.453×10⁶ units/mg.

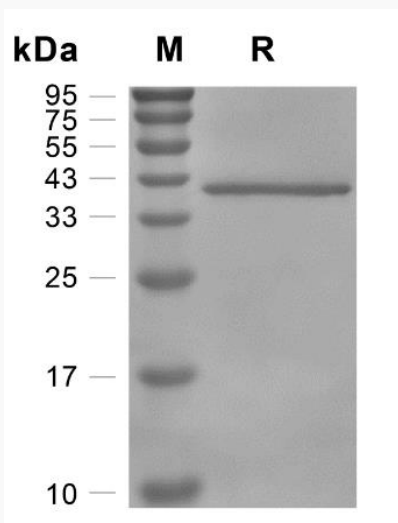


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Greater than 95% as
determined by
reducing SDS-PAGE.



SDS-PAGE

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