

## 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Tag</b>	N-His
<b>Form</b>	Lyophilized powder
<b>Bio-activity</b>	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 <sup>6</sup> units/mg.
<b>Molecular Mass</b>	39.6 kDa
<b>AA Sequence</b>	STVHEILCKLSLEGDHSTPPSAYGSVKPYTNFDAERDALNIETAVKTKGVDEVTIVNIL TNRSNVQRQDIAFAYQRRTKKELPSALKSALSGHLETVILGLLKTPAQYDASELKAS MKGLGTDEDSLIEIICSRTNQEIQEINRVYKEMYKTDLEKDIISDTSGDFRKL MVALAK GRR AEDG SVIDYELIDQDARELYDAGV KRKGT DVPKWISIMTERS VCHLQKV FERYK SYSPYDMLESIKKEVKGDLENAFLNLVQCIQNKPLYFADRLYDSMKGKGTRDKVLIRI MVS RSEVDMLKIRSEFKRKYGKSLYYYIQQDTKGDYQKALLYLCGGDD
<b>Purity</b>	> 95% as determined by reducing SDS-PAGE
<b>Storage</b>	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.
<b>Storage Buffer</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> 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) ]

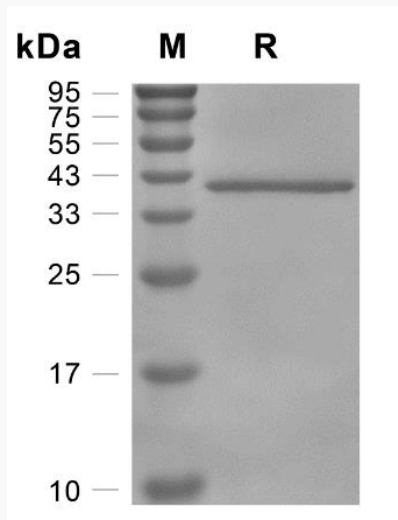
**Official Symbol** *Anxa2*

**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

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



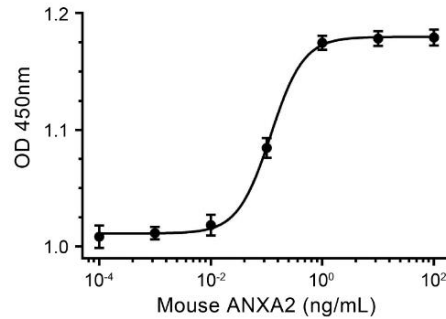
SDS-PAGE


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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  $8.453 \times 10^6$  units/mg.



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