BACKGROUND
Clusterin, also designated complement lysis inhibitor (CLI), apolipoprotein J (APOJ), sulfated glycoprotein 2 (SGP2), SP-40 and testosterone-repressed prostate message 2 (TRPM2), is a secretory, heterodimeric glycoprotein that influences immune regulation, cell adhesion, transformation, lipid transportation, tissue remodeling, membrane recycling and cell-cell interactions. Clusterin is synthesized as a 449 amino acid polypeptide that is posttranslationally cleaved at an internal bond between Arg 227 and Ser 228. Two subunits, α and β, are associated through disulfide bonds. The β subunit (also called ApoJx) corresponds to residues 23-227. The α subunit (also called ApoJβ) corresponds to residues 228-449. Overexpression of Clusterin appears to be more common in late stages of mammary tumor progression. Clusterin markedly influences β-amyloid structure and neuritic toxicity in vivo and may influence Alzheimer’s disease pathogenesis.

REFERENCES
2. Rosenberg, M.E., et al. 2002. Apolipoprotein J/Clusterin prevent lysate, immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

APPLICATIONS
Clusterin (A-9) is recommended for detection of Clusterin of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Clusterin precursor: 70 kDa.
Molecular Weight of Clusterin α: 36-39 kDa.
Molecular Weight of Clusterin β: 34-36 kDa.
Positive Controls: HeLa whole cell lysate: sc-2200 or Clusterin (h): 293T Lysate: sc-112732.

STORAGE
Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA
Clusterin (A-9): sc-166907. Western blot analysis of Clusterin expression in non-transfected: sc-117752 (A) and human Clusterin transfected: sc-112732 (B). 293T whole cell lysates.

SELECT PRODUCT CITATIONS

RESEARCH USE
For research use only, not for use in diagnostic procedures.