

# Aggregation Factor (1D2): sc-73520

## BACKGROUND

The Aggregation Factor is a particle that mediates the heterophilic interaction and binding of homologous cells. Aggregation Factor has been widely studied in species of Sponge, including *Geodia cydonium*, *Microciona prolifera* and *Halichondria bowerbanki*. It has been suggested that Aggregation Factor can be very specific, resulting in different types of cells from the same species of Sponge having reduced adhesiveness compared to the adhesiveness of homologous cells. The Aggregation Factor of *Geodia cydonium* has been found to be a proteinaceous compound composed of many different glycoproteins localized around a 90S sunburst-like core structure. In addition, *Geodia cydonium* Aggregation Factor contains galectin, which is required for cell-cell reaggregation, and a 140 kDa polypeptide, important for cell-cell adhesion.

## REFERENCES

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## SOURCE

Aggregation Factor (1D2) is a mouse monoclonal antibody raised against a 140 kDa polypeptide in the Aggregation Factor of *Geodia cydonium* origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml TBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Aggregation Factor (1D2) is recommended for detection of the 140 kDa polypeptide in the Aggregation Factor of *Geodia cydonium* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

## STORAGE

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

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.