

Mouse anti-human Annexin 1 Monoclonal Antibody (Clone 29)

REFERENCES AND PRESENTATIONS¹

- **ready-to-use (ml)**
MAD-000425QD-3
MAD-000425QD-7
MAD-000425QD-12
- **MD-Stainer presentations²**
MAD-000425QD-3/V
MAD-000425QD/V
- **concentrated**
MAD-000425Q - 1:50 recommended dilution

COMPOSITION

Anti-human Annexin 1 mouse monoclonal antibody purified from serum and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide

INTENDED USE : Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

CLONE: 29

Ig ISOTYPE: mouse IgG1

IMMUNOGEN: Aminoacids 1-346 of bovine annexin

SPECIES REACTIVITY: In vitro diagnostics in humans. Not tested in other species

DESCRIPTION AND APPLICATIONS: Annexin I (a.k.a. lipocortin-1 or calpactin II) is a 38kDa protein that is part of a calcium-dependent phospholipid-binding protein family. Members of these family, share a common core domain, but each has a unique N-terminal tail that imparts its functional specificity. It is believed that phosphorylation of this region in annexin I regulates its functions.

Annexin I has been implicated in regulating phospholipid vesicle aggregation, mediating inflammatory response, and inhibiting the activity of phospholipase A2. Additionally, it has been found that the 10kDa protein S100C influences annexin I's activity by binding to the N-terminal 13 residues of annexin in a manner similar to that of the annexin II/p11 complex.

Immunocytochemical detection of Annexin I represents a simple and highly sensitive and specific (100%) method for the diagnosis of hairy cell

leukaemia. It has been reported that Annexin A1 is overexpressed in breast carcinomas, hepatocellular carcinoma, pancreatic and pituitary adenomas and downregulated in oesophageal, endometrial and prostate carcinoma.

IHC POSITIVE CONTROL: Tonsil or spleen

VISUALIZATION: Cell cytoplasm

IHC RECOMMENDED PROCEDURE:

- 4µm thick section should be taken on charged slides; dry overnight at 60°C
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Master Diagnóstica EDTA buffer pH8³ for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 10 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

STORAGE AND STABILITY:  up to 18 months;  stored at 2-8°C. Do not freeze.

WARNINGS AND PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

SAFETY RECOMMENDATIONS

This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at

¹ These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:

- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).

- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).

For different presentations (references / volumes) please contact the supplier.

² For Technical specifications for MD-Stainer, please contact your distributor.

³ Ref: MAD-004072R/D



BIBLIOGRAPHY

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