

Mouse Anti-Human Epithelial Membrane Antigen,
monoclonal

CatNo **K049**

BatchNo: See Label
Expiration Date: See Label
Storage: 2-8°C for 1 month
-20°C for longer

Background:	Epithelial membrane antigen belongs to a group of homomolecular glycoproteins isolated from the membrane of human milk fat globules. These proteins are also known as human milk fat globulins (HMFG). Their molecular weight ranges from 265 to 400 kDa. In addition to milk, these proteins are found in a number of normal epithelia as well as in tumors derived from them.
Clone Number:	E29
Volume/Quantity:	0.1 ml
Product Form:	Purified IgG - liquid
Buffer:	PBS, pH 7.4 with 0.2 % BSA
Approx. Protein Concentrations	IgG concentration 0.2 mg/ml
Preservatives Stabilisers:	0.09 Sodium Azide (NaN ₃)
Immunogen:	Delipidated extract of human milk fat globule membranes
Isotype:	IgG2a (Mouse)
Specificity:	The K049 antibody reacts with a variety of human epithelial cells. In epithelial tumors, this marker is also strongly expressed. Thereby, mammary carcinomas show the strongest expression. Moreover, the antibody is particularly reactive in tumors of glandular origin (e.g. sweat glands). The antigen can also be detected in squamous cell carcinomas, even if the epithelium of origin (e.g. epidermis) itself is not reactive. In contrast, non-epithelial tumors do not contain detectable EMA. The antibody also detects some lymphoid neoplasms, especially CD30-positive large cell lymphomas.

Applications:

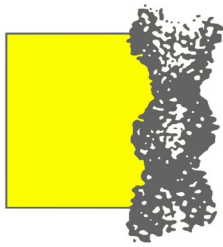
Suggested Working Dilution

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FlowCytometry	Not tested	
Immunohistology-frozen	Yes	
Immunohistology-paraffin	Yes	1/400 – 1/800
Immunohistology-resin	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Not tested	
Radioimmunoassay	Not tested	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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Immunohistology

Positive Control Tissue: Human breast carcinoma
Recommended Secondary Reagents: F(ab')₂ rabbit anti-mouse IgG HRP conjugate – (LINARIS CatNo LST0013B) Vectastain[®] ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector[®] Red (Vector CatNo SK-5100).
Vectastain[®] ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).
Recommended Negative Controls: Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

Storage Conditions: Store at 2-8°C for one month or at -20°C for longer!
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life: 12 months from date of despatch.
Health and Safety Information: (A full Health and Safety assessment is available upon request)
This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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For Research purposes only. Not for therapeutic or diagnostic use.

