



Mouse Anti-Human Estrogen Receptor Alpha,
monoclonal

CatNo **K051**

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

Background:	Steroid hormone receptors are of great importance for the diagnosis and therapy of breast cancer. The expression of estrogen or progesterone receptors in tumor tissue is a prerequisite for a patient's response to anti-hormone therapy.
Clone Number:	1D5
Volume/Quantity:	0.5 ml
Product Form:	Culture Supernatant - liquid
Preservatives Stabilisers:	0.05 Sodium Azide (NaN ₃)
Immunogen:	Recombinant human protein was used as the immunogen for this Estrogen Receptor alpha antibody.
Isotype:	IgG1 (Mouse)
Specificity:	This monoclonal antibody is specific to estrogen receptor alpha (ER alpha) and shows minimal cross-reaction with other members of the family. ER is an important regulator of growth and differentiation in the mammary gland. Presence of ER in breast tumors indicates an increased likelihood of response to anti-estrogen (e.g. tamoxifen) therapy. It strongly stains nuclei of epithelial cells in breast carcinomas.

Applications:	Suggested Working Dilution	
FlowCytometry	Not tested	
Immunohistology-frozen	Yes	
Immunohistology-paraffin	Yes	1/100 – 1/200
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: Breast Cancer
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.

