



Mouse Anti-Human Melanosome,
monoclonal

CatNo **K050**

BatchNo: See Label
Expiration Date: See Label
Storage: 2-8 °C

Background:	Melanocytes are pigmented, melanin containing cells being located mainly in the epidermis. They protect tissues from UVB irradiation of the sun. The antibody HMB45 reacts with fetal and neonatal Melanocytes, with junctional and blue naevus cells, but not with intradermal naevi and adult melanocytes.
Clone Number:	HMB-45
Volume/Quantity:	0.5 ml
Product Form:	Tissue Culture Supernatant - liquid
Buffer:	0.05 mol/L Tris-HCl, pH 7.2
Preservatives Stabilisers:	15 mM Sodium Azide (NaN ₃)
Immunogen:	Extract of pigmented melanoma metastases from lymphnodes
Isotype:	IgG1 (Mouse)
Specificity:	The antibody HMB45 is used for the discrimination of Melanoma from normal Melanocytes. Melanoic Schwannoma Clear Cell Sarcoma will also be stained. Negative are tumours of epithelial, lymphoid, glial and mesenchymal origin.

Applications:	Suggested Working Dilution	
FlowCytometry	Not tested	
Immunohistology-frozen	Yes	
Immunohistology-paraffin	Yes	1/50
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: Melanoma
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)

References

- 1 Gown AM and Vogel AM. Monoclonal antibodies to intermediate filament proteins of human cells: unique and cross-reacting antibodies. J Cell Biol 1982; 95:414
- 2 Gown AM and Vogel AM. Monoclonal antibodies to human intermediate filament proteins. III. Analysis of tumors. Amer J Clin Pathol 1985; 84:413
- 3 Moll R, et al. The catalog of human cytokeratins: patterns of expression in normal epithelia, tumors, and cultured cells. Cell 1982; 31:11
- 4 Dairkee SH, et al. Expression of basal and luminal epithelium-specific keratins in normal benign and malignant breast tissue. J Natl Canc Inst 1988; 80:691
- 5 O'Malley FP, et al. Usefulness of immunoperoxidase staining with high-molecular-weight cytokeratin in the differential diagnosis of small-acinar lesions of the prostate gland. Virch Arch A Pathol Anat 1990; 417:191
- 6 Gown AM and Vogel AM. Monoclonal antibodies to intermediate filament proteins of human cells. II. Distribution of filament proteins in normal human tissue. Amer J Pathol 1984; 114:309

Storage Conditions: Store at 2-8°C!
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.

