Mouse (monoclonal) anti-ERK5/MAPK7

PRODUCT ANALYSIS SHEET

Catalog Number:	44688M
Volume:	50 µL
Clone Number:	12F2
Isotype:	IgG1 (mouse)
Form of Antibody:	Mouse monoclonal immunoglobulin in PBS, pH 7.3, with PEG and Sucrose.
Preservative:	0.09% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent ultrafiltration and size exclusion chromatography.
Immunogen:	Peptide (N-terminal sequence) conjugated to hemocyanin.
Target Summary:	Extracellular signal-regulated kinase 5 (ERK5, MAPK7, big mitogen activated kinase 1, BMK1) belongs to the serine/threonine protein kinase family. It contains a TEY motif in the activation loop similar to ERK1/2. Extracellular signals, including receptor tyrosine kinases and G-protein-coupled receptors as well as osmotic and oxidative stress lead to ERK5 activation by MEK5. The ERK5 pathway plays an important role in cellular proliferation, differentiation and survival
Specificity:	This Mab recognizes ERK5/MAPK7 (92 kDa).
Species Reactivity:	Human, mouse, rat and dog.
Applications:	The antibody is suitable for Western blotting. Other applications may be possible but have not been tested.
Suggested Working Dilutions:	Immunoblotting: 0.5 µg/mL for HRP/ECL detection. The optimal antibody concentration should be determined empirically for each specific application.
Recommended Positive Control:	Cell lysate from untreated SKOV-3 cells.
Storage:	Upon arrival, we recommend a brief centrifugation before opening to settle vial contents. Then, apportion the antibody into working aliquots and store at –20°C. **Avoid repeated freeze / thaw cycles.**
Expiration Date:	Expires one year from date of receipt when stored as instructed.

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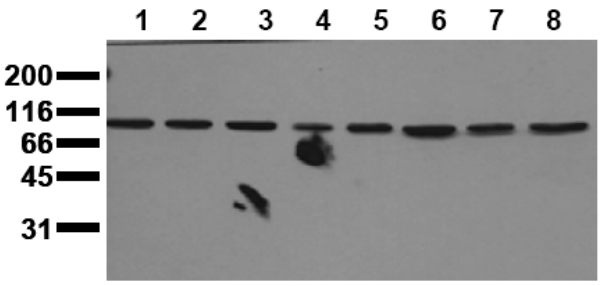

Western Blotting

Extracts of serum starved A431 (1), A549 (2), SKOV-3 (3), OVCAR-5 (4), HaCaT (5), PC3 (6), HeLa (7) and HepG2 (8) tumor cells (approximately 20,000 cells per lane) were resolved by SDS-PAGE and transferred to PVDF. The membrane was blocked with a casein/Tween 20 buffer then incubated with the Mab at 0.5 µg/mL for 1 hour at room temperature. After washing, the membrane was incubated with an anti-mouse HRP-conjugated secondary antibody and signals were detected using an ECL detection method (exposure time: 30 seconds).

The data show that the Mab recognizes various levels of ERK5/MAPK7 in these cell systems.

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