SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Recombinant Rabbit Anti-MAPK3 Monoclonal Antibody

**Catalog Number: SLA1212M**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Monoclonal |
| **Clone No.:** | 3B2 |
| **GeneID:** | 5594 |
| **SWISS:** | P27361 |
| **Target:** | MAPK3 |
| **Immunogen:** | A synthesized peptide derived from human ERK1 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB (1:1000-5000)<br>IHC-P (1:200-800)<br>IHC-F (1:200-800)<br>IF (1:200-800)<br>Flow-Cyt (1:100-200)<br>Not yet tested in other applications.<br>Optimal working dilutions must be determined by the end user. |
| **Reactivity:** | Human |
| **Predicted MW.:** | 44 kDa |
| **Subcellular Location:** | Nucleus |
| **Background:** | The protein encoded by this gene is a member of the MAPkinase family. MAP kinases, also known as extracellularsignal-regulated kinases (ERKs), act in a signaling cascade thatregulates various cellular processes such as proliferation,differentiation, and cell cycle progression in response to avariety of extracellular signals. This kinase is activated byupstream kinases, resulting in its translocation to the nucleuswhere it phosphorylates nuclear targets. Alternatively splicedtranscript variants encoding different protein isoforms |

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| | have beendescribed. [provided by RefSeq, Jul 2008]. |

## [ VALIDATION IMAGES ]

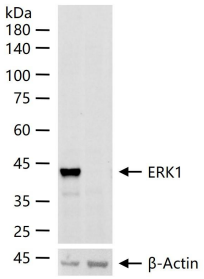



Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with ERK1 monoclonal antibody, unconjugated (SLA1212M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

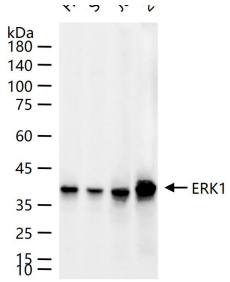



Figure 2. 25 ug total protein per lane of various lysates (see on figure) probed with ERK1 monoclonal antibody, unconjugated (SLA1212M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

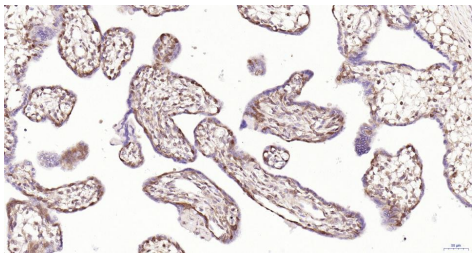


Figure 3. Paraformaldehyde-fixed, paraffin embedded Human Placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1 Monoclonal Antibody, Unconjugated(SLA1212M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

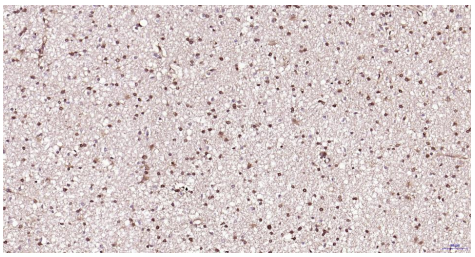


Figure 4. Paraformaldehyde-fixed, paraffin embedded Human Glioma; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1 Monoclonal Antibody, Unconjugated(SLA1212M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

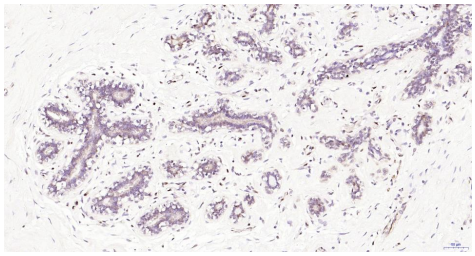


Figure 5. Paraformaldehyde-fixed, paraffin embedded Human Breast; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1 Monoclonal Antibody, Unconjugated(SLA1212M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

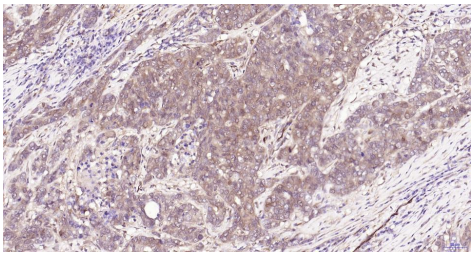


Figure 6. Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1 Monoclonal Antibody, Unconjugated(SLA1212M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

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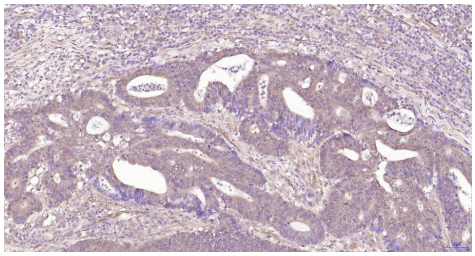


Figure 7. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1 Monoclonal Antibody, Unconjugated(SLA1212M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

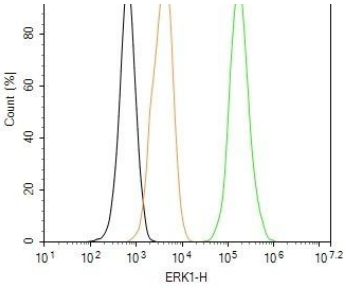



Figure 8. The HeLa (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Cells stained with Primary Antibody for 30 min at room temperature,followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-ERK1 antibody (SLA1212M,1:100); Isotype Control (orange): Rabbit IgG (SL0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed
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