SunLong Biotech Co.,LTD
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[Primary Antibody]

Recombinant Rabbit Anti-ERK1&ERK2 (p-T202/Y204/T185/Y187) Monoclonal Antibody

Catalog Number: SLA3101M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	5A12
GeneID:	5594
SWISS:	P27361
Target:	ERK1&ERK2 (p-T202/Y204/T185/Y187)
Immunogen:	A synthesized peptide derived from human ERK1 around the phosphorylation site of T202/Y204
Purification:	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 (1:500-2000) Flow-Cyt (1:100-200) ICC/IF (1:100-200) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human,Rat
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 have beendescribed. [provided by RefSeq, Jul 2008].

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[VALIDATION IMAGES]

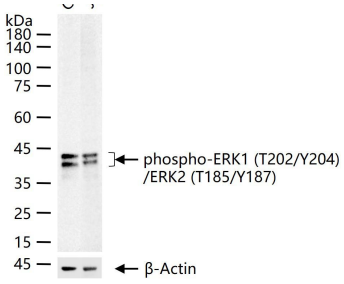


Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) monoclonal antibody, unconjugated (SLA3101M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

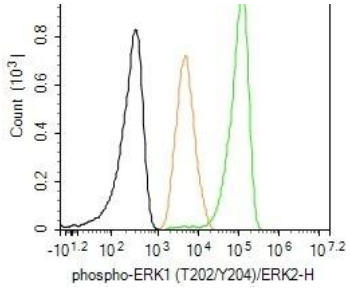


Figure 2. The Hela (treated with 200 ng/ml PMA for 30 minutes) (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) antibody (SLA3101M,1:100); Isotype Control (orange): Rabbit IgG (SL0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed

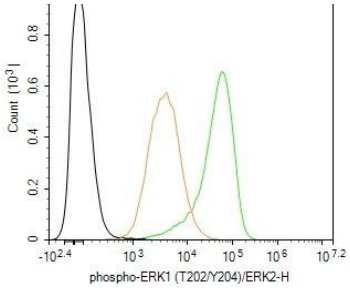


Figure 3. The Jurkat (treated with 200 ng/ml PMA for 30 minutes) (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) antibody (SLA3101M,1:100); Isotype Control (orange): Rabbit IgG (SL0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed

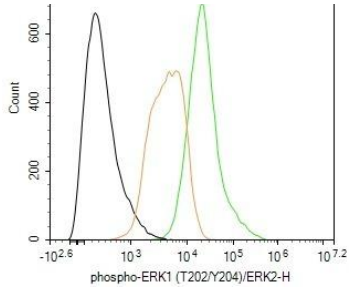


Figure 4. The C6 (treated with 200 ng/ml PMA for 30 minutes) (Rat) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) antibody (SLA3101M,1:100); Isotype Control (orange): Rabbit IgG (SL0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed

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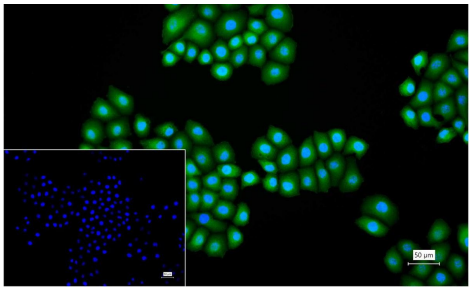


Figure 5. 4% Paraformaldehyde-fixed HeLa (treated with 200 ng/ml TPA/PMA for 30 minutes) (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187)) monoclonal Antibody, unconjugated (SLA3101M) 1:100, 90 min at 37°C; followed by BF488 conjugated Goat Anti-Rabbit IgG antibody (green, SL60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control
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