SunLong Biotech Co.,LTD
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Rabbit Anti-RARB antibody

SL0516R

Product Name	RARB
Chinese Name	维甲酸受体β抗体
Alias	Retinoic acid R-beta; HAP; HBV activated protein; HBV-activated protein; Hepatitis B virus act protein; NR1B2; Nuclear receptor subfamily 1 group B member 2; RAR B; RAR beta; RAR epsil acid receptor beta 2; Retinoic acid receptor beta 4; Retinoic acid receptor beta 5; Retinoic acid re Retinoic acid receptor beta polypeptide; RRB 2; RARB_HUMAN; RRB2.
Research Area	Tumour Cell biology immunology Signal transduction Apoptosis transcriptional regulatory factor
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, (predicted: Rat, Chicken, Dog, Pig, Cow,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-C（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	50kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human RARB: 155-250/482
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d applications.

PubMed PubMed

Retinoids are metabolites of vitamin A (retinal) and are believed to represent important signaling during vertebrate development and tissue differentiation. Two families of retinoid receptors have identified. Retinoic acid receptors (RARs) include RAR alpha, RAR Beta and RAR gamma, each a high affinity for all trans retinoic acids and belongs to the same class of nuclear transcription fa thyroid hormone receptors, vitamin D3 receptor and ecdysone receptor. The ligand binding dom RARs are highly conserved and RAR isoforms are expressed in distinct patterns throughout deve in the mature organism. Members of the retinoid X receptor (RXR) family, RXR alpha, RXR Be gamma, are activated by 9 cis retinoic acid, a stereo and photoisomer of all trans RA that is expre in both liver and kidney and may represent a widely used hormone.

Function:
Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response e response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various processes. The RXR/RAR heterodimers bind to the retinoic acid response elements (RARE) con tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence or presence of hormone ligand as an activator of gene expression due to weak binding to corepressors. In concert with RARG, r skeletal growth, matrix homeostasis and growth plate function.

Subunit:
Homodimer (By similarity). Heterodimer; with a RXR molecule. Binds DNA preferentially as a heterodimer (By similarity). Interacts weakly with NCOR2.

Product Detail

Subcellular Location:
Isoform Beta-1: Nucleus.
Isoform Beta-2: Nucleus.
Isoform Beta-4: Cytoplasm.

Similarity:
Belongs to the nuclear hormone receptor family. NR1 subfamily.
Contains 1 nuclear receptor DNA-binding domain.

SWISS:
P10826

Gene ID:
5915

Database links:

Entrez Gene: 5915 Human

Entrez Gene: 218772 Mouse

Entrez Gene: 24706 Rat

Omim: 180220 Human

SwissProt: P10826 Human

SwissProt: P22605 Mouse

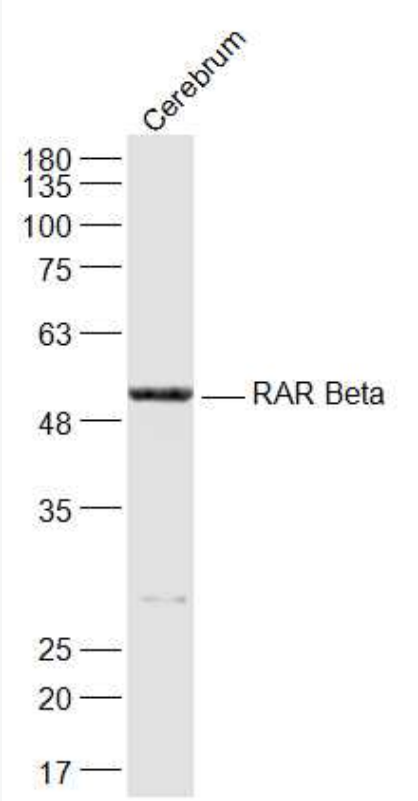
Unigene: 654490 Human

Unigene: 259318 Mouse

Unigene: 220045 Rat

RAR-β 参与对很多恶性 Tumour 细胞的诱导分化和凋亡作用。

Product Picture



Sample:

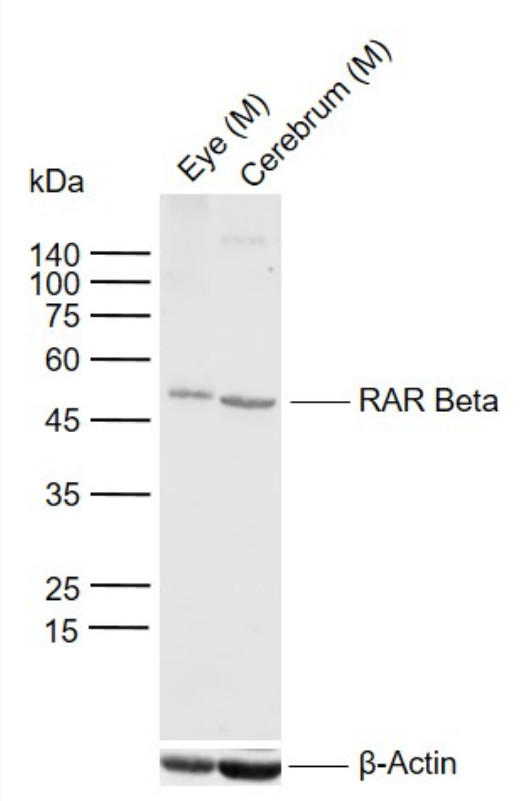
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-RAR Beta (SL0516R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD

Observed band size: 50 kD



Sample:

Lane 1: Mouse Eye tissue lysates

Lane 2: Mouse Cerebrum tissue lysates

Primary: Anti- RAR Beta (SL0516R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti- Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kDa

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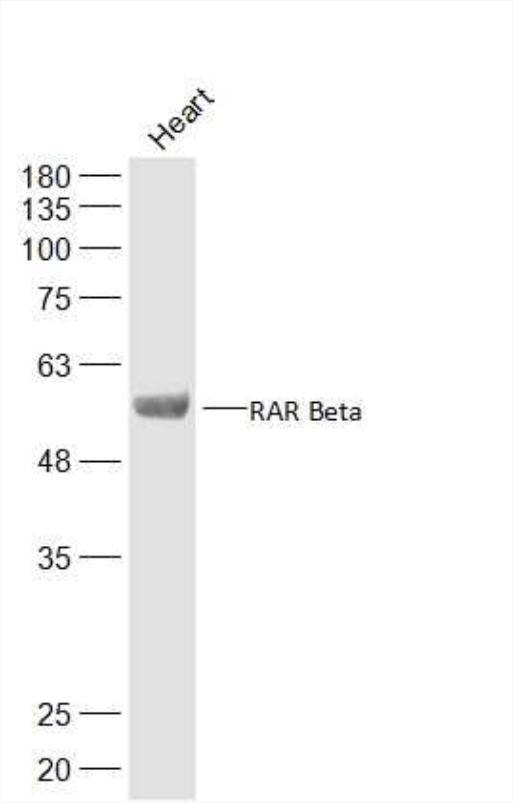
Observed band size: 50 kDa



Sample:

Heart (Mouse) Lysate at 40 ug

Primary: Anti-RAR Beta (SL0516R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD

Observed band size: 50 kD

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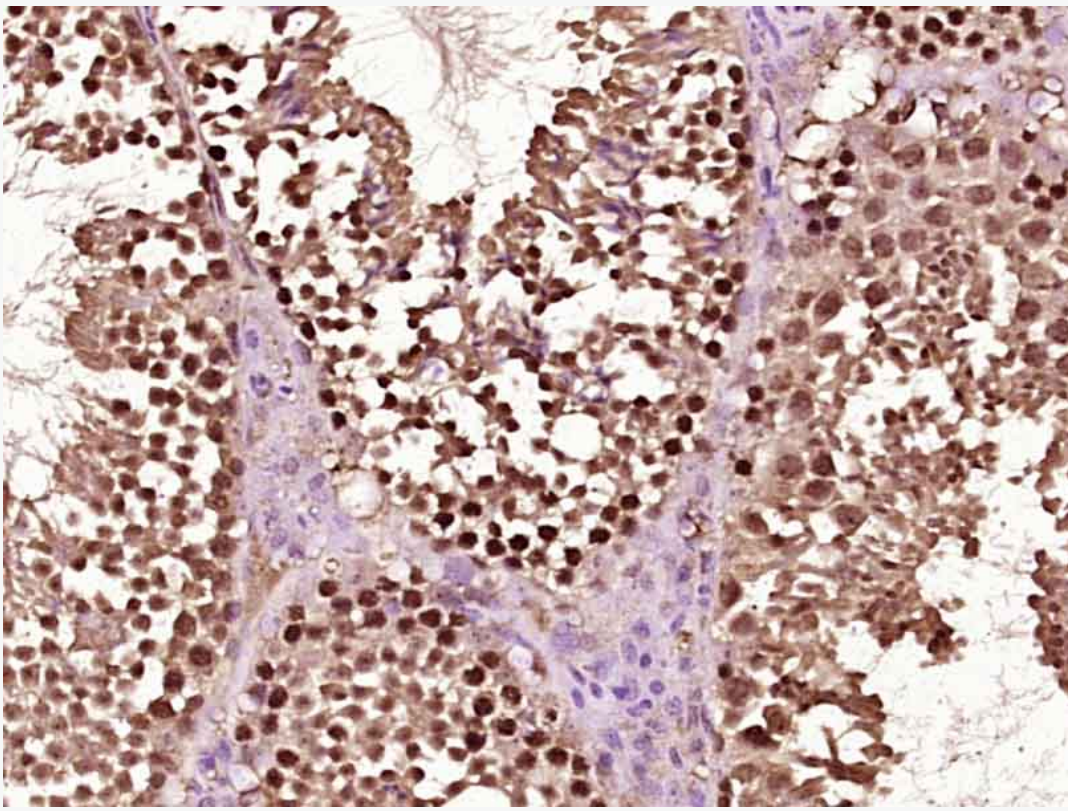

Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in soc
buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min
Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RAR Beta)
Antibody, Unconjugated (SL0516R) at 1:400 overnight at 4°C, followed by operating accordi
Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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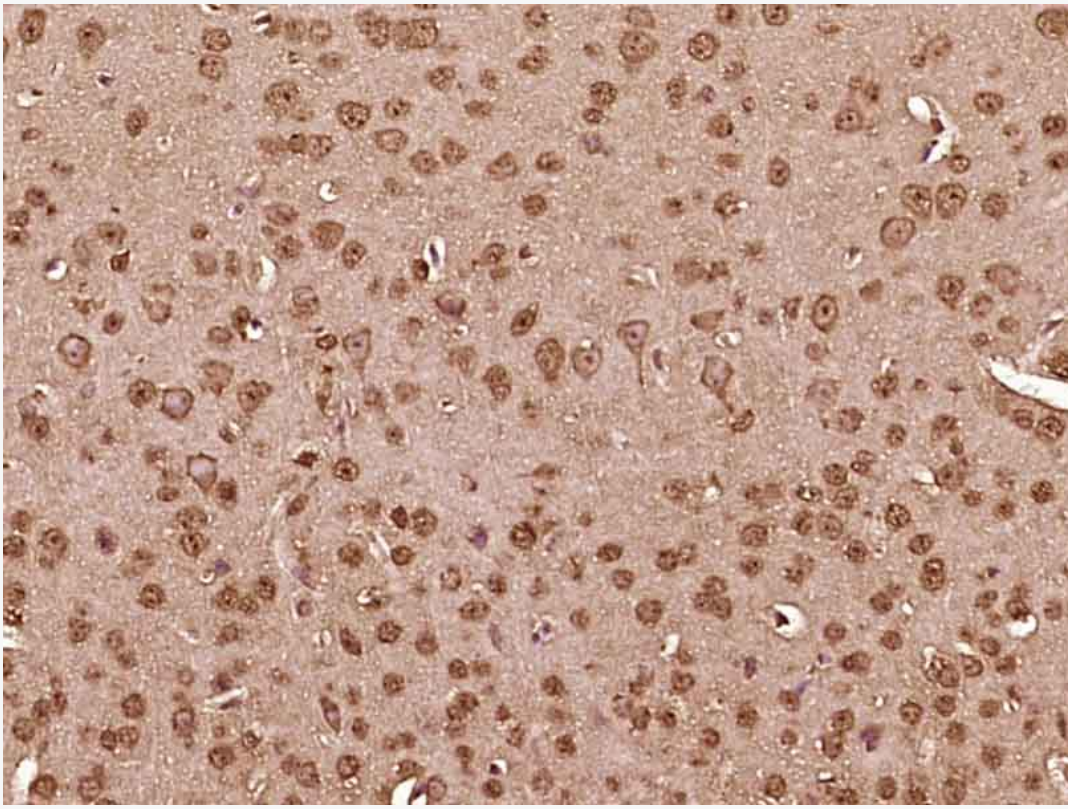

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in soc
buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min
Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RAR Beta)
Antibody, Unconjugated (SL0516R) at 1:400 overnight at 4°C, followed by operating accordi
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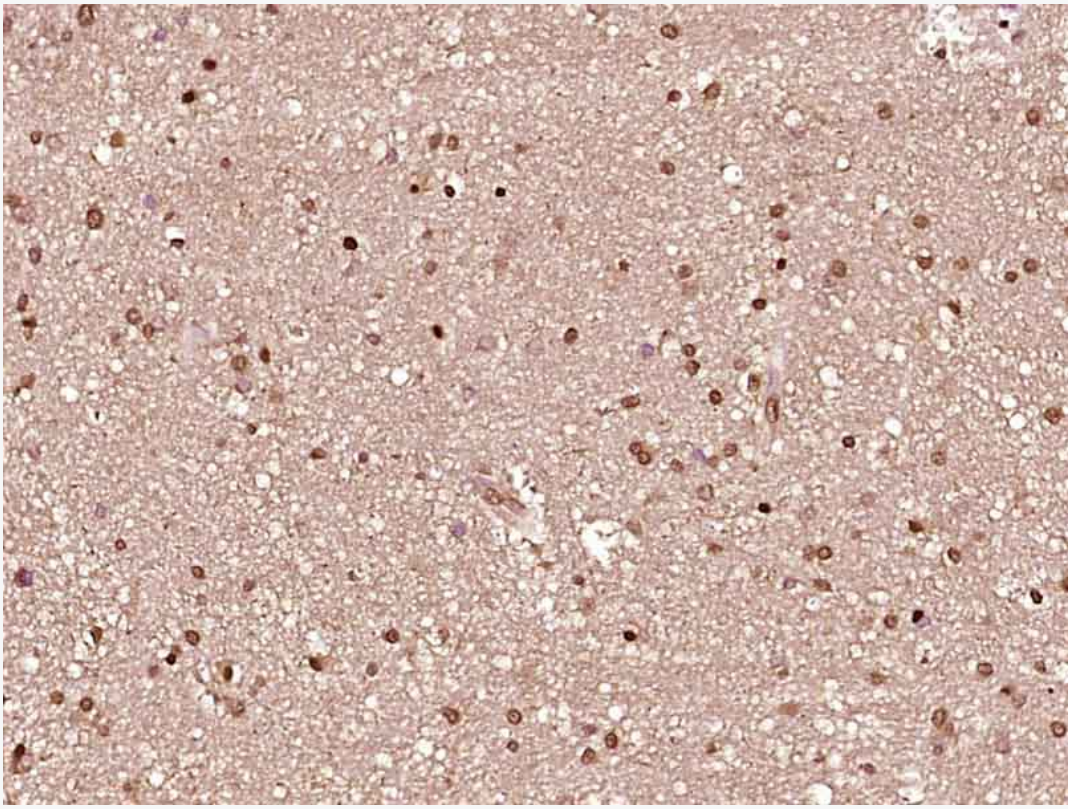

Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boili
sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen perox
minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (
Polyclonal Antibody, Unconjugated (SL0516R) at 1:400 overnight at 4°C, followed by operat
according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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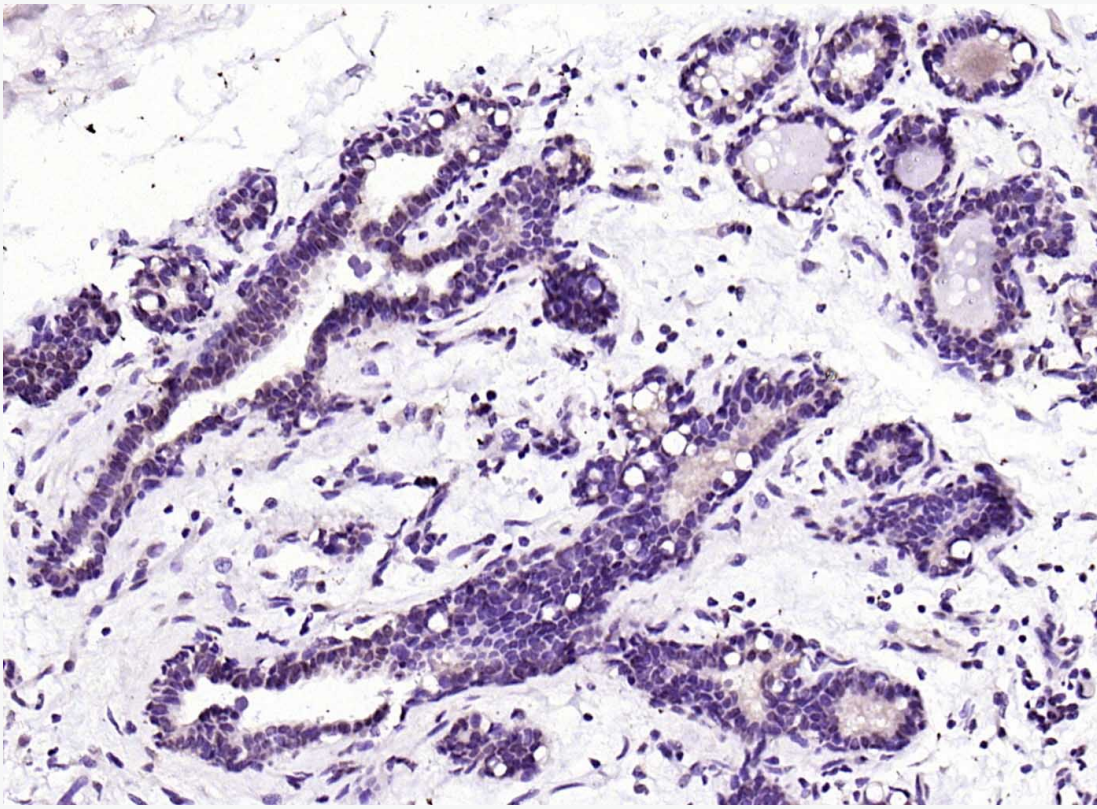

Paraformaldehyde-fixed, paraffin embedded (human breast); Antigen retrieval by boiling in sc
citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 2
Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RAR Beta)
Antibody, Unconjugated (SL0516R) at 1:200 overnight at 4°C, followed by operating accordi
Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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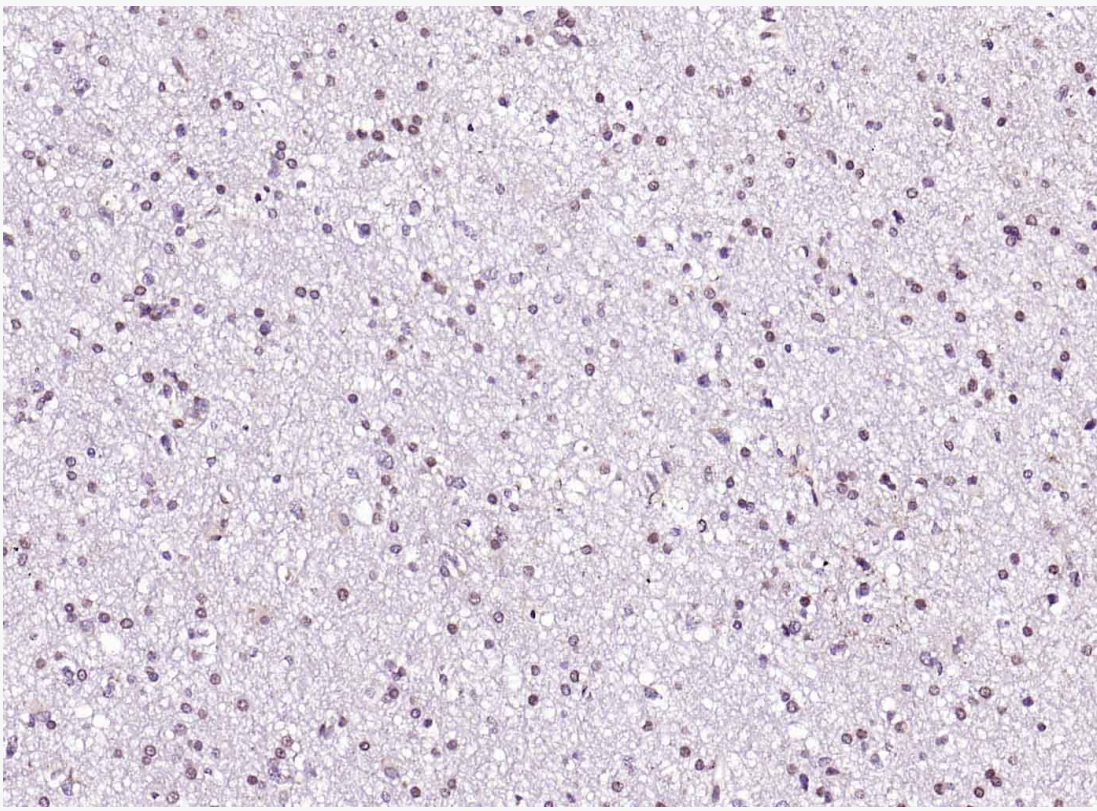

Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boilin
sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen perox
minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (I
Polyclonal Antibody, Unconjugated (SL0516R) at 1:200 overnight at 4°C, followed by operat
according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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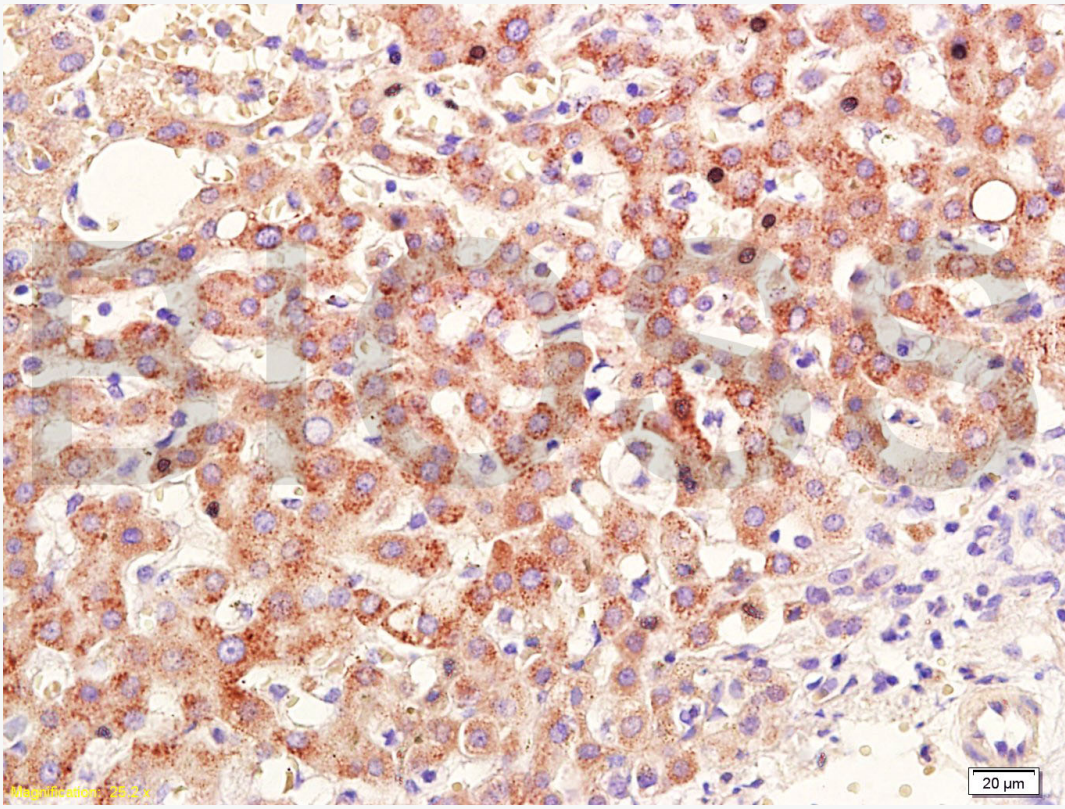

Tissue/cell: human cervical carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous

by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ fo

Incubation: Anti-RAR Beta Polyclonal Antibody, Unconjugated(SL0516) 1:400, overnight at

followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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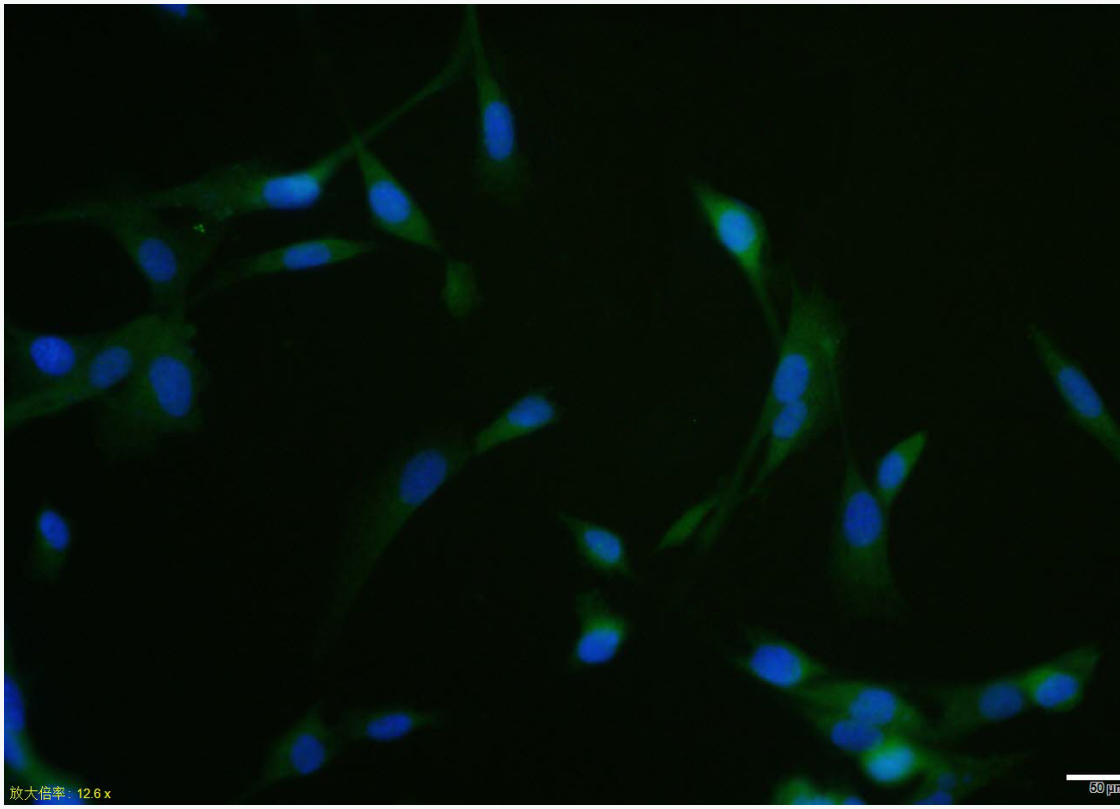

U87MG cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Bloc

(normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (RAR Beta) polyc

Antibody, Unconjugated (SL0516R) 1:100, 90 minutes at 37°C; followed by a conjugated Go

Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain

nuclei.

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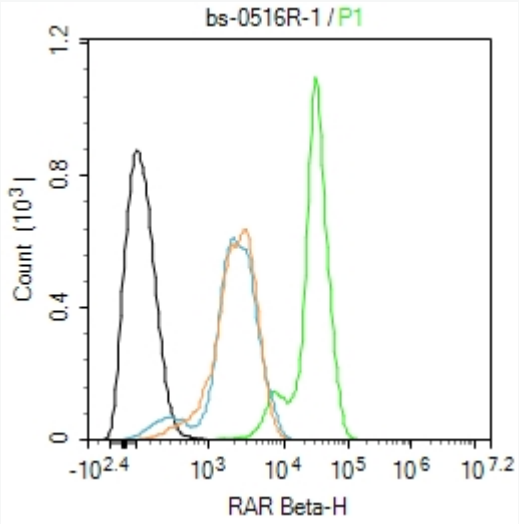

Blank control: SHSY5Y.

Primary Antibody (green line): Rabbit Anti-RAR Beta antibody (SL0516R)

Dilution: 1ug/Test;

Secondary Antibody : Goat anti-rabbit IgG-FITC

Dilution: 0.5ug/Test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90 methanol for 20 min at -20℃.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibo min at room temperature. The secondary antibody used for 40 min at room temperature. Acqu 20,000 events was performed.