

Rabbit Anti-5HT2A Receptor antibody

SL1056R

Product Name 5HT2A Receptor

Chinese Name 5-羟色胺受体 2A 抗体

Alias 5HT2A_HUMAN; 5-hydroxytryptamine receptor 2A; HTR2A; HTR2; 5-HT-2; 5-HT-2A; Serotonin receptor 2A;

Research Area Neurobiology Channel protein

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, Rat,

WB=1:500-2000 (Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 52kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human 5HT2A Receptor: 65-160/471 <Cytoplasmic>

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°C. 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 diagnostic applications.

PubMed [PubMed](#)

Product 5HT2A receptor is one of the several different receptors for 5-hydroxytryptamine

Detail

(serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. 5HT2A receptor belongs to the G-protein coupled receptor 1 family and mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. This receptor is involved in tracheal smooth muscle contraction, bronchoconstriction, and control of aldosterone production. 5HT2A receptor is an integral membrane protein which localizes to the post-synaptic thickening of axo-dendritic synapses. 5HT2A receptor protein contains a PDZ domain-binding motif which is involved in the interaction with INADL, CASK, APBA1, DLG1 and DLG4.

Function:

This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. This receptor is involved in tracheal smooth muscle contraction, bronchoconstriction, and control of aldosterone production.

Subunit:

Interacts with MPDZ and INADL. May interact with MPP3, PRDX6, DLG4, DLG1, CASK, APBA1 and MAGI2.

Subcellular Location:

Cell membrane; Multi-pass membrane protein. Note=Localizes to the postsynaptic thickening of axo-dendritic synapses.

Similarity:

Belongs to the G-protein coupled receptor 1 family.

SWISS:

P28223

Gene ID:

3356

Database links:

[Entrez Gene: 3356](#) Human

[Entrez Gene: 15558](#) Mouse

[Entrez Gene: 29595](#) Rat

[Omim: 182135](#) Human

[SwissProt: P28223](#) Human

[SwissProt: P35363](#) Mouse

[SwissProt: P14842](#) Rat

[Unigene: 654586](#) Human

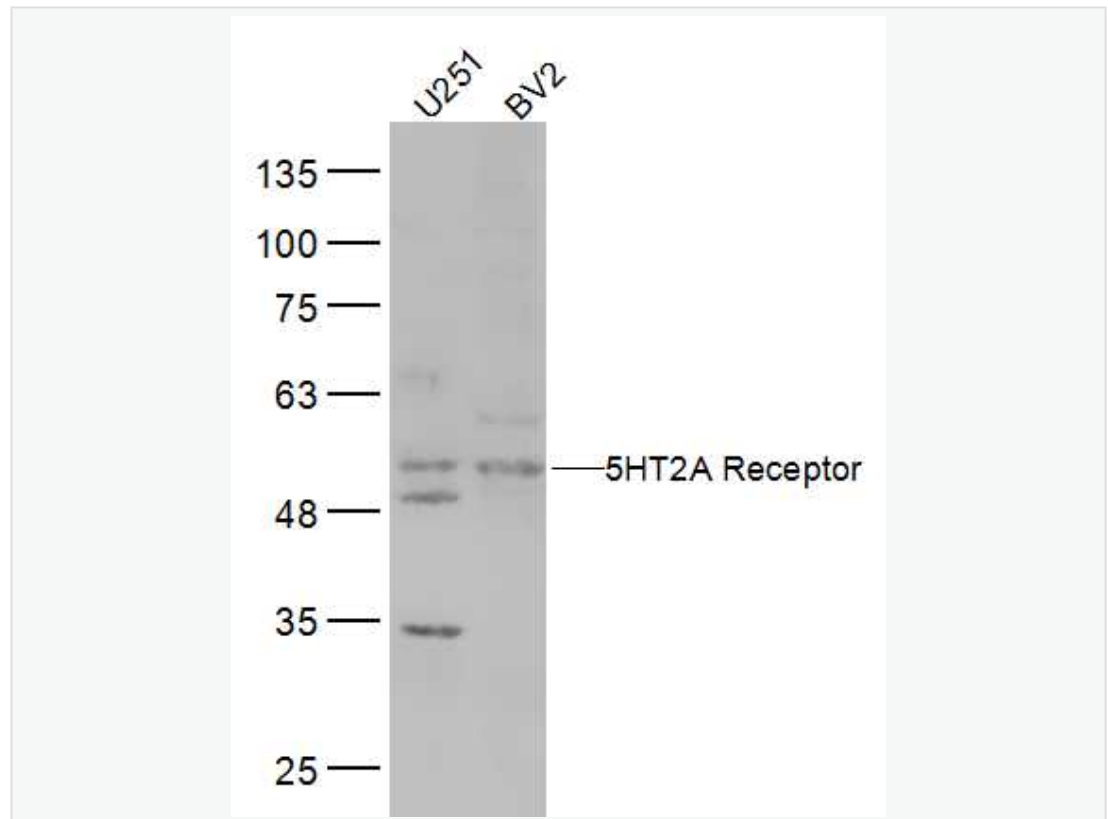
[Unigene: 72630](#) Human

[Unigene: 214351](#) Mouse

[Unigene: 10294](#) Rat

[Unigene: 146756](#)Rat

**Product
Picture**



Sample:

U251(Human) Cell Lysate at 30 ug

BV2(Mouse) Cell Lysate at 30 ug

Primary: Anti-5HT2A Receptor (SL1056R) at 1/300 dilution

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

Predicted band size: 52 kD

Observed band size: 52 kD



Sample:

Lane 1: Cerebrum (Mouse) Lysate at 40 ug

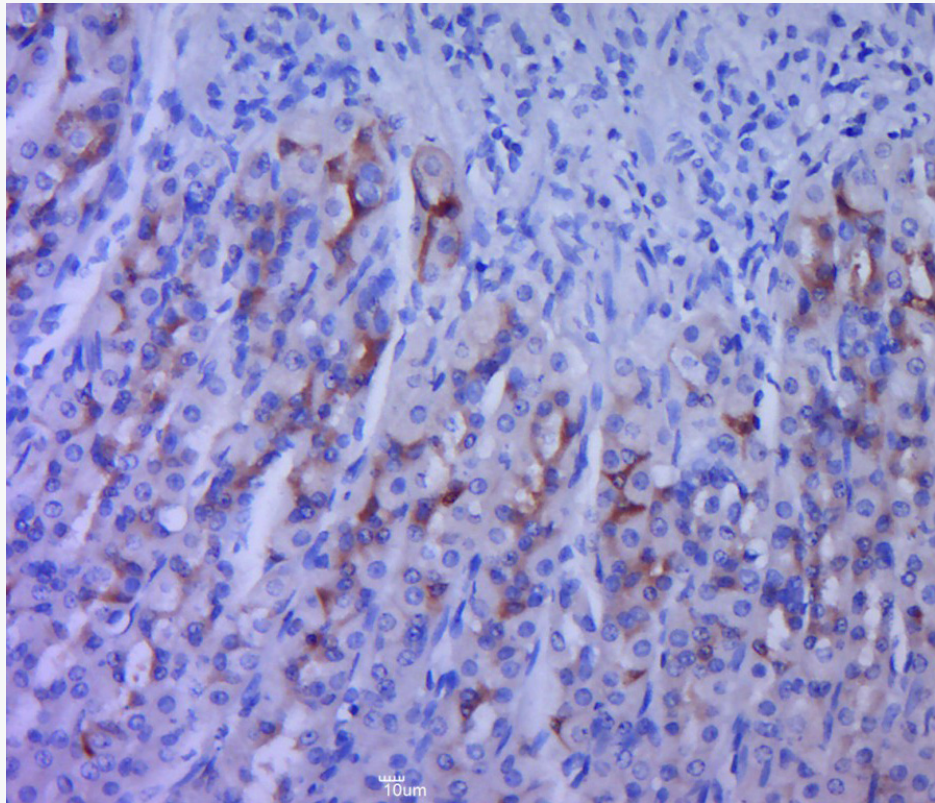
Lane 2: Cerebrum (Rat) Lysate at 40 ug

Primary: Anti-5HT2A Receptor (SL1056R) at 1/1000 dilution

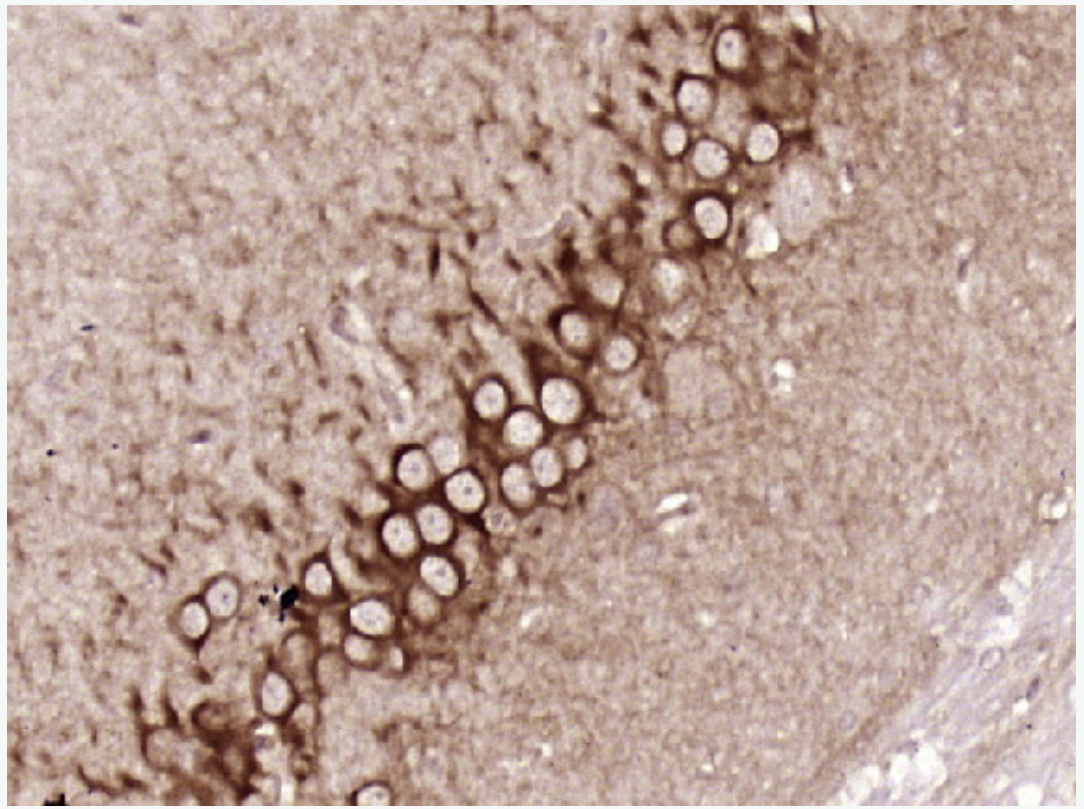
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD

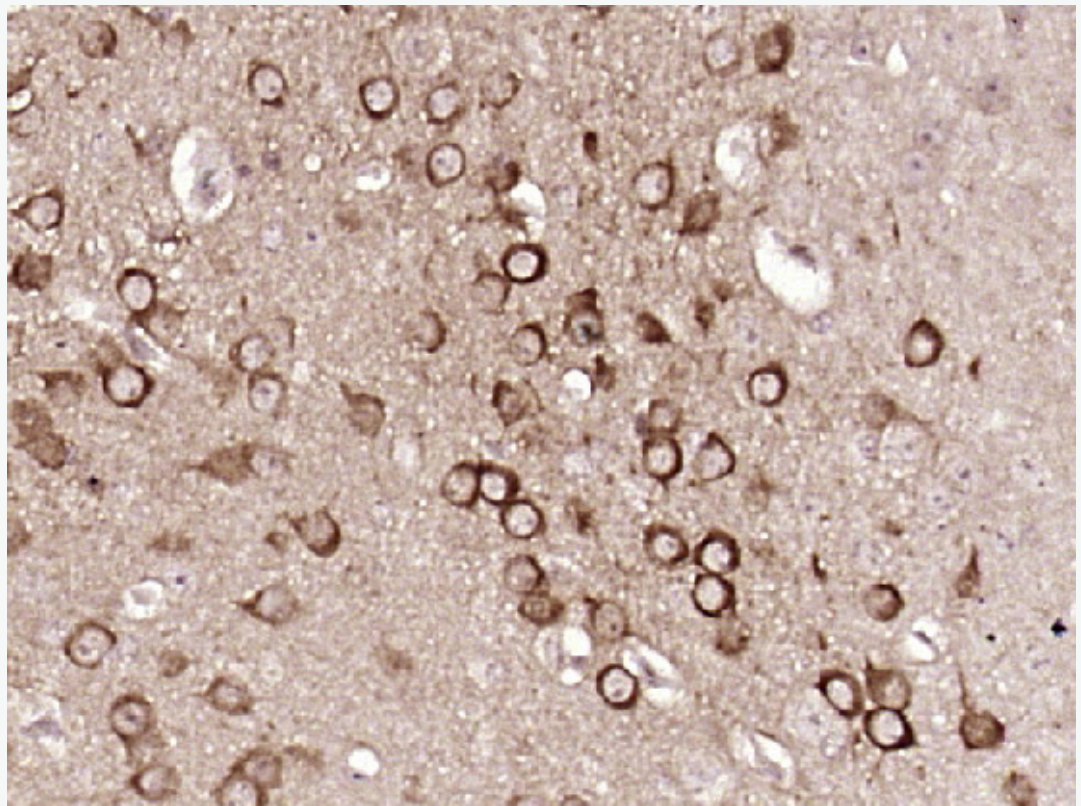
Observed band size: 50 kD



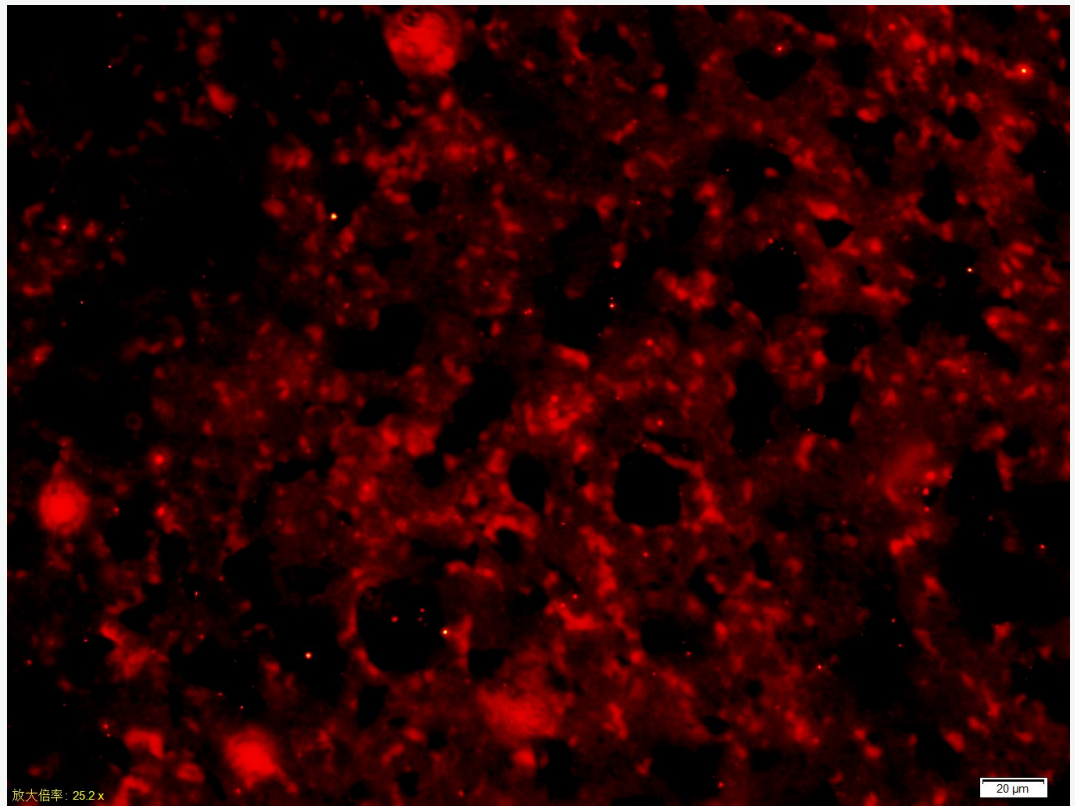
Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (5HT2A Receptor) Polyclonal Antibody, Unconjugated (SL1056R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



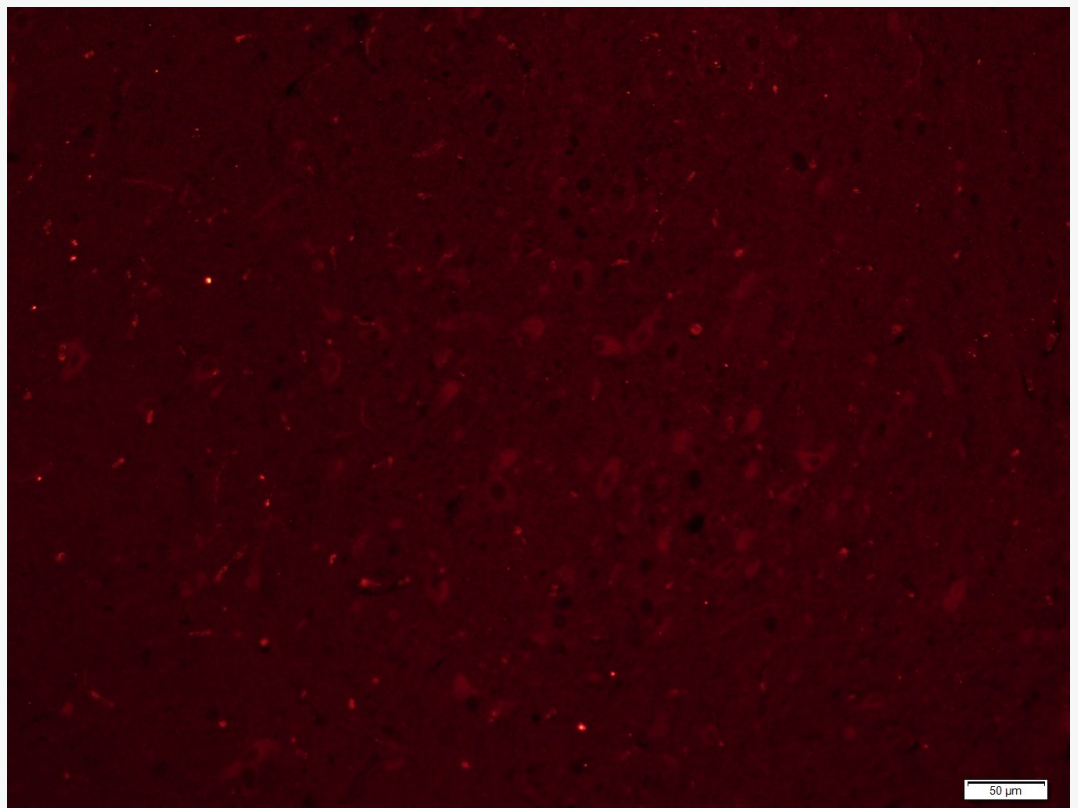
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (5HT2A Receptor) Polyclonal Antibody, Unconjugated (SL1056R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



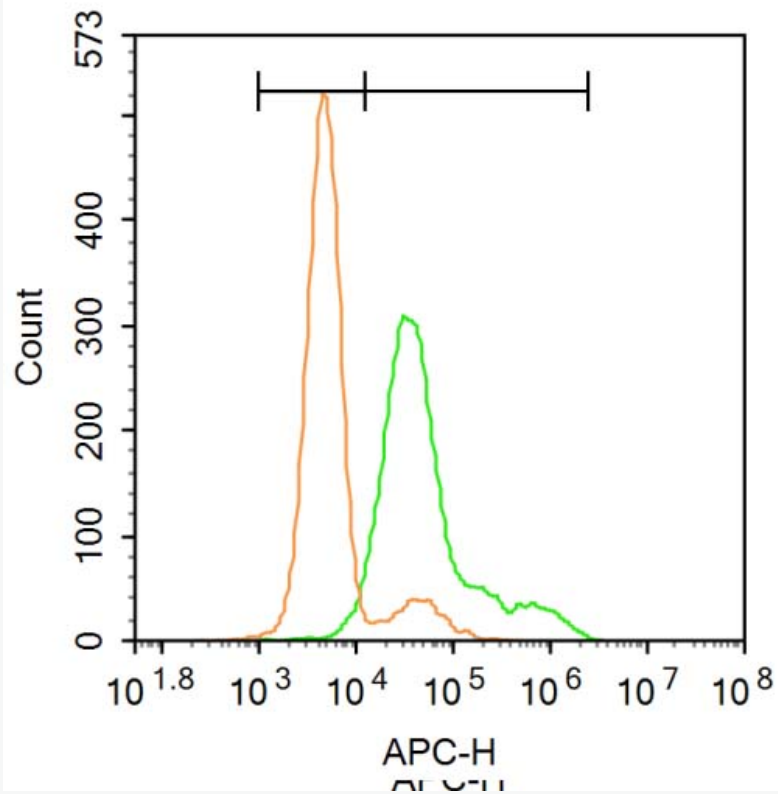
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (5HT2A Receptor) Polyclonal Antibody, Unconjugated (SL1056R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat lung tissue;4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-5HT2A Receptor Polyclonal Antibody, Unconjugated(SL1056R)
1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3
conjugated(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (5HT2A Receptor) Polyclonal Antibody, Unconjugated (SL1056R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (SL0295G- cy3) for 90 minutes, and DAPI for nuclei staining.



Blank control: U-2OS.

Primary Antibody (green line): Rabbit Anti-5HT2A Receptor antibody (SL1056R)

Dilution: $3\mu\text{g}/10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF647

Dilution: $3\mu\text{g}/\text{test}$.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein

interactions for 30 min at room temperature .Cells stained with Primary

Antibody for 30 min at room temperature. The secondary antibody used for 40 min



SunLong Biotech Co.,LTD

Tel: 0086-571-56623320 Fax:0086-571-56623318

E-mail:sales@sunlongbiotech.com

www.sunlongbiotech.com

at room temperature. Acquisition of 20,000 events was performed.