



Rabbit Anti-GPR30 antibody

SL20643R

Product Name:	GPR30
Chinese Name:	G protein-coupled receptor30抗体
Alias:	G Protein Coupled Receptor 30; G-protein coupled receptor 30; G-protein coupled estrogen receptor 1; Membrane estrogen receptor; mER; Chemokine receptor-like 2; IL8-related receptor DRY12; Flow-induced endothelial G-protein coupled receptor 1; FEG-1; Lymphocyte-derived G-protein coupled receptor; LYGPR; GPCR-BR; CEPR; CMKRL2; DRY12; GPER.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,
Applications:	WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	42kDa
Cellular localization:	The nucleuscytoplasmicThe cell membraneExtracellular matrix
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GPR30:251-350/375<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	G protein-coupled receptors (GPRs, or GPCRs) contain 7 hydrophobic transmembrane domains embedded in hydrophilic intra- and extracellular loops and transduce a variety

of hormone, endogenous peptide, and neurotransmitter signals into intracellular effects via G proteins. GPR30 is a member of this family and is an orphan receptor. GPR30 expression has been reported in brain, breast carcinoma, blood, bone marrow, CNS, heart, liver, lung, lymph node, placenta, and spleen. In brain, GPR30 is expressed as a 2.8 kb transcript in basal forebrain, frontal cortex, thalamus, hippocampus, caudate and putamen. However, unlike other known G protein-coupled receptors, GPR30 localizes to the endoplasmic reticulum, where it specifically binds estrogen and estrogen derivatives.

Function:

Receptor for estrogen.

Subcellular Location:

Cell membrane. Endoplasmic reticulum membrane. Golgi apparatus membrane. Protein has been detected in the cell membrane, endoplasmic reticulum and Golgi apparatus. It is currently unclear whether this is a cell surface or intracellular receptor.

Tissue Specificity:

Ubiquitously expressed, but is most abundant in placenta. In brain regions, expressed as a 2.8 kb transcript in basal forebrain, frontal cortex, thalamus, hippocampus, caudate and putamen.

Similarity:

Belongs to the G-protein coupled receptor 1 family.

SWISS:

Q99527

Gene ID:

2852

Database links:

[Entrez Gene: 2852](#)Human

[Entrez Gene: 76854](#)Mouse

[Entrez Gene: 171104](#)Rat

[Omim: 601805](#)Human

[SwissProt: Q99527](#)Human

[SwissProt: Q8BMP4](#)Mouse

[SwissProt: O08878](#)Rat

[Unigene: 20961](#)Human

[Unigene: 389706](#)Mouse

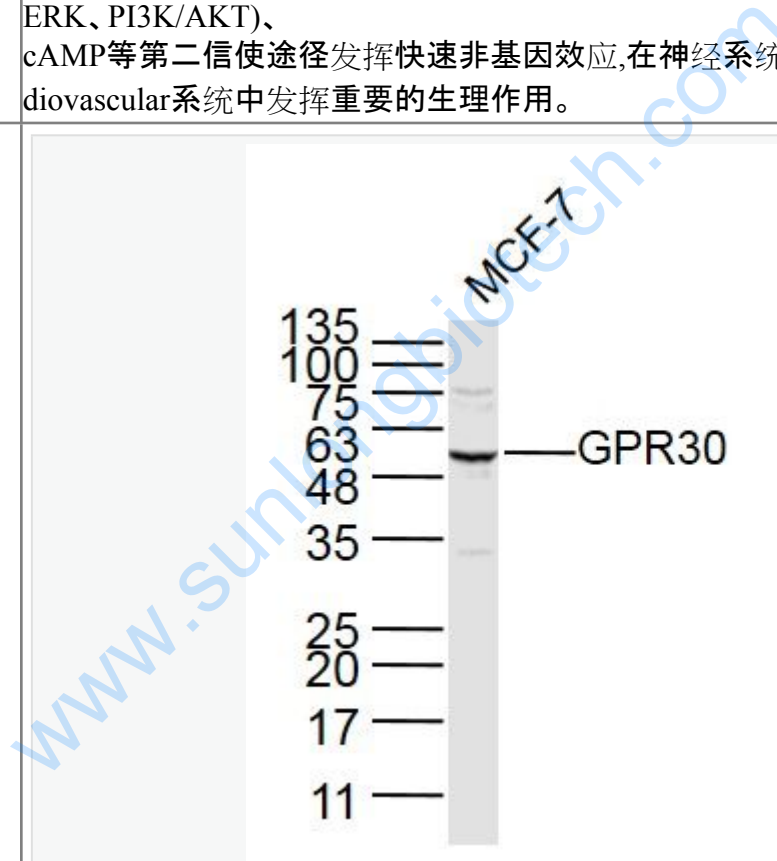
[Unigene: 9806Rat](#)

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

GPR30是一种膜性雌激素蛋白受体又称非基因型雌激素膜性受体GPR30。GPR30受体广泛表达于海马、下丘脑、子宫、卵巢、乳腺、骨和Cardiovascular等全身多个系统、器官和组织,在细胞内主要定位于The cell membrane、内质网、Mitochondrion和高尔基体。GPER与雌激素结合, ERK、PI3K/AKT)、cAMP等第二信使途径发挥快速非基因效应,在神经系统、生殖系统、运动系统和Cardiovascular系统中发挥重要的生理作用。

Picture:



Sample:

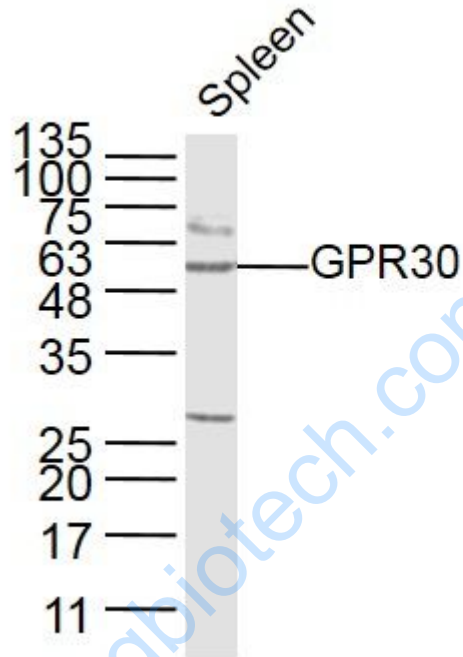
MCF-7 (Human) Lysate at 30 ug

Primary: Anti-GPR30 (SL20643R) at 1/300 dilution

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

Predicted band size: 42 kD

Observed band size: 57 kD



Sample:

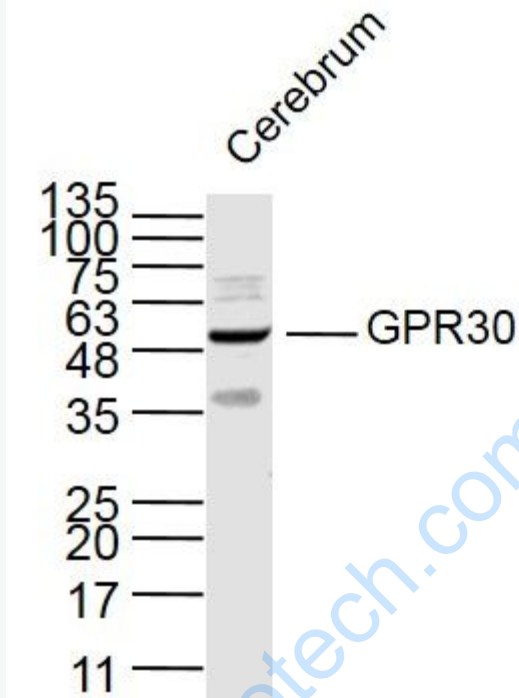
Spleen (Mouse) Lysate at 40 ug

Primary: Anti-GPR30 (SL20643R) at 1/300 dilution

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

Predicted band size: 42 kD

Observed band size: 57 kD



Sample:

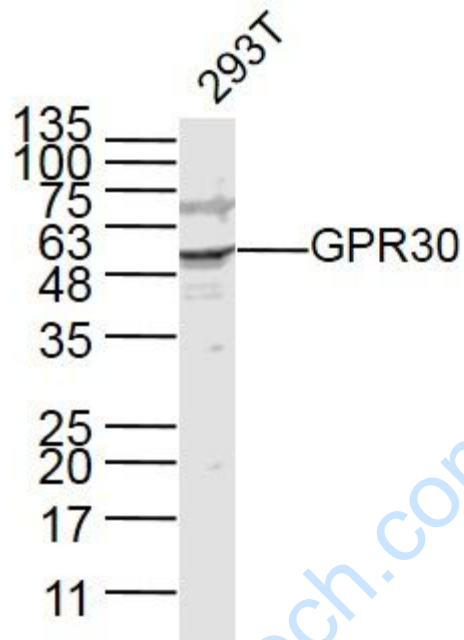
Spleen (Mouse) Lysate at 40 ug

Primary: Anti-GPR30 (SL20643R) at 1/300 dilution

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

Predicted band size: 42 kD

Observed band size: 57 kD



Sample:

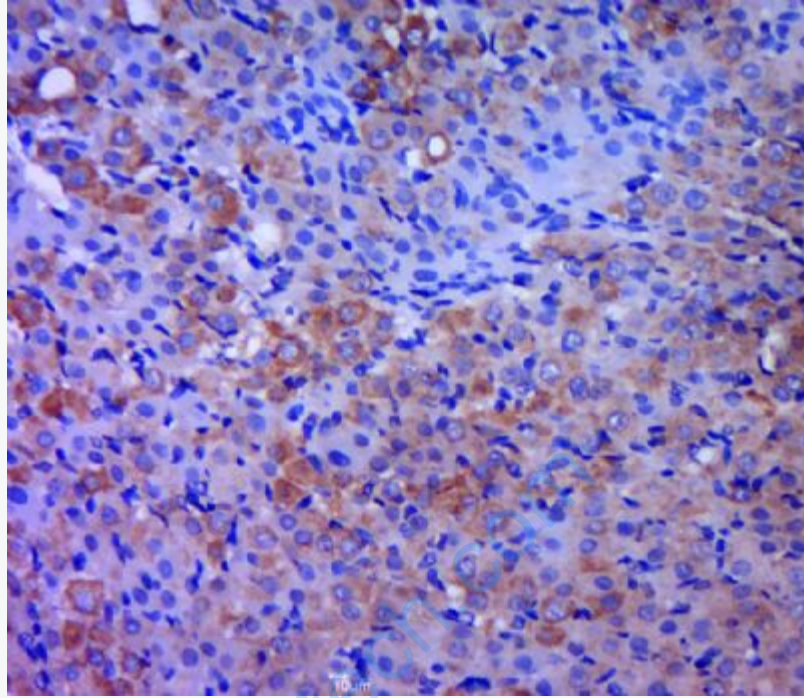
293T (Human) Lysate at 30 ug

Primary: Anti-GPR30 (SL20643R) at 1/300 dilution

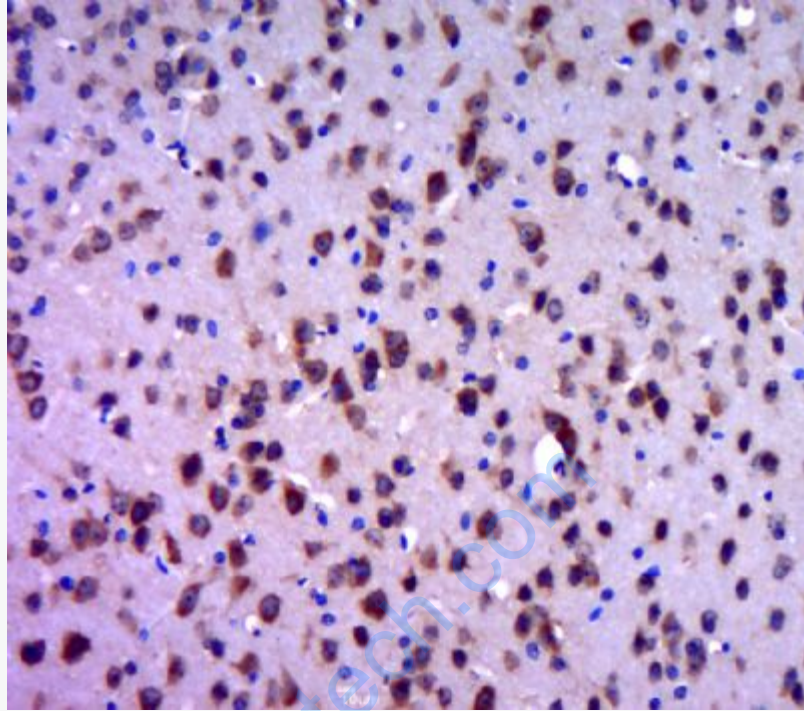
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

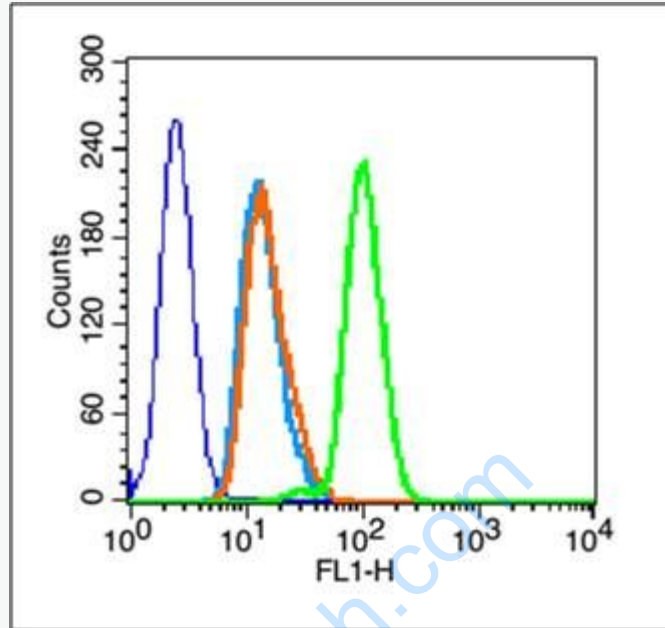
Observed band size: 57 kD



Paraformaldehyde-fixed, paraffin embedded (rat ovary 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 (GPR30) Polyclonal Antibody, Unconjugated (SL20643R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain 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 (GPR30) Polyclonal Antibody, Unconjugated (SL20643R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control (blue line): A431 cells (fixed with 70% methanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C).

Primary Antibody (green line): Rabbit Anti-GPR30 antibody (SL20643R), Dilution: 1 µg / 10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, Dilution: 1 µg /test.