

GLUT12 Rabbit pAb

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Catalog # AP52299

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8TD20
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66966
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GLUT12
Epitope Specificity	251-350/617
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endomembrane system; Multi-pass membrane protein. Cytoplasm, perinuclear region. Note=Localizes primarily perinuclear region in the absence of insulin.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GLUT12 belongs to a family of transporters that catalyze the uptake of sugars through facilitated diffusion. Thirteen different types of glucose/fructose transport carrier proteins designated as Glut 1-13 facilitate glucose/fructose transport across the cell membrane. Individual members of the Glut family have predicted secondary structure characteristic of 12 membrane spanning domains of other transport carriers.

Additional Information

Gene ID	154091
Other Names	Solute carrier family 2, facilitated glucose transporter member 12, Glucose transporter type 12, GLUT-12, SLC2A12 (HGNC:18067)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100,IF=1:100-500, Flow-Cyt=1 μ g/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	SLC2A12 (HGNC:18067)
Function	Insulin-independent facilitative glucose transporter.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:Q8BFW9}; Multi-pass membrane protein. Endomembrane system {ECO:0000250 UniProtKB:Q5J316}; Multi-pass membrane protein. Cytoplasm, perinuclear region. Note=Localizes primarily perinuclear region in the absence of insulin.
Tissue Location	Predominantly expressed in skeletal muscle, heart and prostate, with lower levels in brain, placenta and kidney

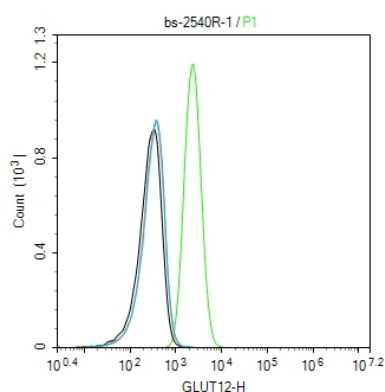
Background

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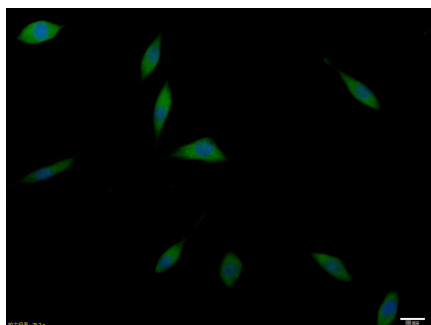
References

Rogers S.,et al.Am. J. Physiol. 282:E733-E738(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images

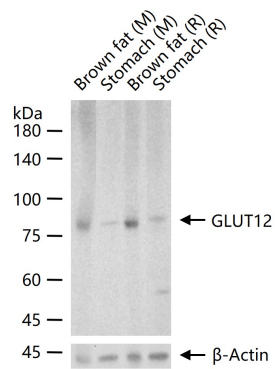


The MCF-7(H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rabbit Anti-GLUT12 antibody (AP52299): 1 μ g/ 10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF647 (AP52299-BF647): 1 μ g/test. Isotype Control (orange): Rabbit IgG (AP52299). Blank control (black): PBS. Acquisition of 20,000 events was performed.

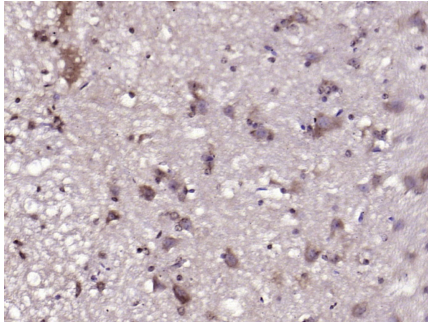


SHSY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (GLUT12) polyclonal Antibody, Unconjugated (AP52299) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

25 ug total protein per lane of various lysates (see on figure) probed with GLUT12 polyclonal antibody, unconjugated (AP52299) at 1:1000 dilution and 4°C



overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded (mouse spinal cord); 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 (GLUT12) Polyclonal Antibody, Unconjugated (AP52299) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.