

DBI Antibody / Diazepam Binding Inhibitor (R32604)

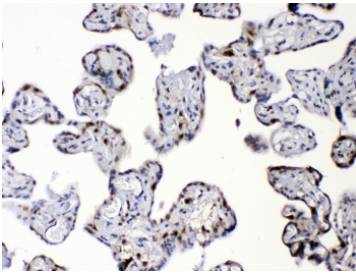
Catalog No.	Formulation	Size
R32604	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

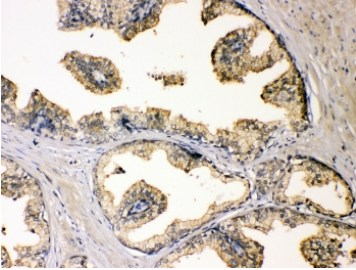
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P07108
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells Immunohistochemistry (FFPE) : 1-2ug/ml Immunofluorescence/Immunocytochemistry (FFPE) : 2-4ug/ml
Limitations	This DBI antibody is available for research use only.



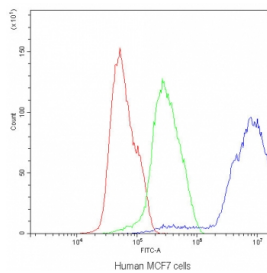
Western blot testing of human placenta lysate with DBI antibody at 0.5ug/ml. Predicted molecular weight ~10 kDa.



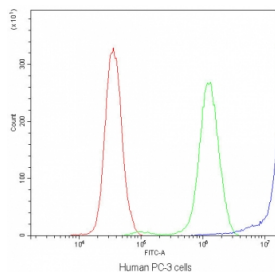
IHC testing of FFPE human placenta tissue with DBI antibody at 1ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



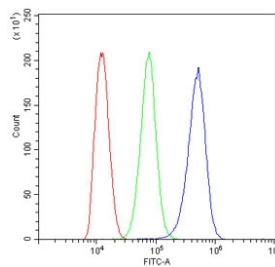
IHC testing of FFPE human prostate cancer with DBI antibody at 1ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



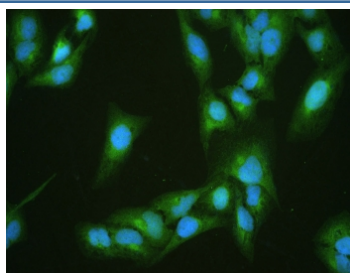
Flow cytometry testing of human MCF7 cells with DBI antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=DBI antibody.



Flow cytometry testing of human PC-3 cells with DBI antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=DBI antibody.



Flow cytometry testing of human ThP-1 cells with DBI antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=DBI antibody.



IF/ICC staining of FFPE human U-2 OS cells with DBI antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Acyl-CoA-binding protein, also called Diazepam binding inhibitor, is a protein that in humans is encoded by the DBI gene. This gene encodes diazepam binding inhibitor, a protein that is regulated by hormones and is involved in lipid metabolism and the displacement of beta-carbolines and benzodiazepines, which modulate signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. The protein is conserved from yeast to mammals, with the most highly conserved domain consisting of seven contiguous residues that constitute the hydrophobic binding site for medium- and long-chain acyl-Coenzyme A esters. Diazepam binding inhibitor is also known to mediate the feedback regulation of pancreatic secretion and the postprandial release of cholecystokinin, in addition to its role as a mediator in corticotropin-dependent adrenal steroidogenesis. Three pseudogenes located on chromosomes 6, 8 and 16 have been identified. Multiple transcript variants encoding different isoforms have been described for this gene.

Application Notes

Optimal dilution of the DBI antibody should be determined by the researcher.

Immunogen

A human recombinant protein corresponding to amino acids S2-I87 was used as the immunogen for the DBI antibody.

Storage

After reconstitution, the DBI antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.