Product Name: FX Rabbit Polyclonal Antibody
Catalog #: APRab11191
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:10000-1:20000
Molecular Weight	40kDa

Antigen Information

Gene Name	TSTA3
Alternative Names	TSTA3; SDR4E1; GDP-L-fucose synthase; GDP-4-keto-6-deoxy-D-mannose-3; 5-epimerase-4-reductase; Protein FX; Red cell NADP(H)-binding protein; Short-chain dehydrogenase/reductase family 4E member 1
Gene ID	7264.0
SwissProt ID	Q13630
Immunogen	The antiserum was produced against synthesized peptide derived from human TSTA3. AA range:221-270

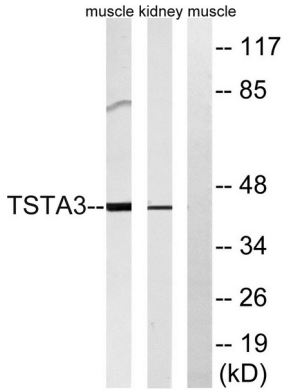
Background

Tissue specific transplantation antigen P35B is a NADP(H)-binding protein. It catalyze the two-step epimerase and the reductase reactions in GDP-D-mannose metabolism, converting GDP-4-keto-6-D-deoxymannose to GDP-L-fucose. GDP-L-fucose is the substrate of several fucosyltransferases involved in the expression of many glycoconjugates, including blood group ABH antigens and developmental adhesion antigens. Mutations in this gene may cause leukocyte adhesion deficiency, type II. [provided by RefSeq, Jul 2008],catalytic activity:GDP-L-fucose + NADP(+) = GDP-4-dehydro-6-deoxy-D-mannose + NADPH.,function:Two step NADP-dependent conversion of GDP-4-dehydro-6-deoxy-D-mannose to GDP-fucose, involving an epimerase and a reductase reaction.,pathway:Nucleotide-sugar biosynthesis; GDP-L-fucose biosynthesis via de novo pathway; GDP-L-fucose from GDP-D-mannose: step 2/2.,similarity:Belongs to the fucose synthetase family.,subunit:Homodimer.,

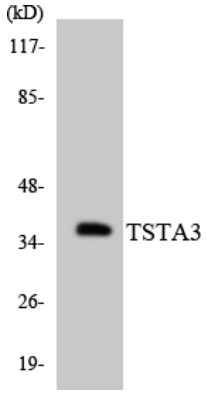
Research Area

Fructose and mannose metabolism;Amino sugar and nucleotide sugar metabolism;

Image Data



Western blot analysis of lysates from rat kidney and rat muscle cells, using TSTA3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using TSTA3 antibody.