Product Name: PIPOX Rabbit Polyclonal Antibody
Catalog #: APRab16163

Summary

Production Name	PIPOX Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PIPOX
Alternative Names	PIPOX; LPIPOX; PSO; Peroxisomal sarcosine oxidase; PSO; L-pipecolate oxidase; L-pipecolic acid oxidase
Gene ID	51268.0
SwissProt ID	Q9P0Z9.The antiserum was produced against synthesized peptide derived from human PIPOX. AA range:257-306

Application

Dilution Ratio	WB 1:500-2000 ELISA 2000-20000
Molecular Weight	44kD

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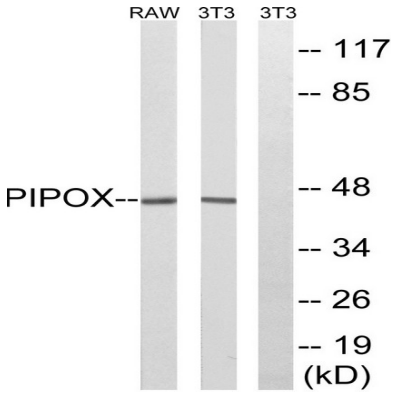
Background

catalytic activity:L-pipecolate + O(2) = 2,3,4,5-tetrahydropyridine-2-carboxylate + H(2)O(2).,catalytic activity:Sarcosine + H(2)O + O(2) = glycine + formaldehyde + H(2)O(2).,cofactor:Binds 1 FAD per subunit.,function:Metabolizes sarcosine, L-pipecolic acid and L-proline.,similarity:Belongs to the MSOX/MTOX family.,subunit:Monomer.,catalytic activity:L-pipecolate + O(2) = 2,3,4,5-tetrahydropyridine-2-carboxylate + H(2)O(2).,catalytic activity:Sarcosine + H(2)O + O(2) = glycine + formaldehyde + H(2)O(2).,cofactor:Binds 1 FAD per subunit.,function:Metabolizes sarcosine, L-pipecolic acid and L-proline.,similarity:Belongs to the MSOX/MTOX family.,subunit:Monomer.,

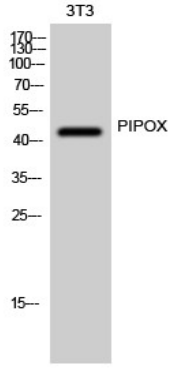
Research Area

Glycine; serine and threonine metabolism;Lysine degradation;

Image Data



Western blot analysis of lysates from NIH/3T3 and RAW264.7 cells, using PIPOX Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of 3T3 cells using PIPOX Polyclonal Antibody

Note

For research use only.