

Rabbit PIPOX Polyclonal Antibody | anti-PIPOX antibody

Anti-PIPOX Antibody Picoband

CATALOG # AAA127656	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

PIPOX; Polyclonal Antibody; Anti-PIPOX Antibody Picoband; anti-PIPOX antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PIPOX antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human PIPOX recombinant protein (Position: E173-L390). Human PIPOX shares 81.2% amino acid (aa) sequence identity with mouse PIPOX.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Figure 5. IHC analysis of PIPOX using anti-PIPOX antibody (AAA127656).PIPOX was detected in a paraffin-embedded section of human prostate cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PIPOX Antibody (AAA127656) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of PIPOX using anti-PIPOX antibody (AAA127656).PIPOX was detected in a paraffin-embedded section of human prostate cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PIPOX Antibody (AAA127656) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



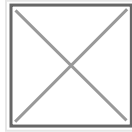
IHC (Immunohistochemisry)

Figure 3. IHC analysis of PIPOX using anti-PIPOX antibody (AAA127656).PIPOX was detected in a paraffin-embedded section of human ovary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PIPOX Antibody (AAA127656) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of PIPOX using anti-PIPOX antibody (AAA127656).PIPOX was detected in a paraffin-embedded section of human ovary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PIPOX Antibody (AAA127656) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of PIPOX using anti-PIPOX antibody (AAA127656).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HepG2 whole cell lysates,Lane 2: rat liver tissue lysates,Lane 3: mouse liver tissue lysates,Lane 4: mouse kidney tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PIPOX antigen affinity purified polyclonal antibody (#AAA127656) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PIPOX at approximately 40 kDa. The expected band size for PIPOX is at 44 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PIPOX antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PIPOX antibody	Primary Antibodies
References	1. Dodt, G., Kim, D., Reimann, S., McCabe, K., Gould, S. J., Mihalik, S. J. The human L-pipecolic acid oxidase is similar to bacterial monomeric sarcosine oxidases rather than D-amino acid oxidases. Cell Biochem. Biophys. 32: 313-316, 2000. 2. Dodt, G., Kim, D. G., Reimann, S. A., Reuber, B. E., McCabe, K., Gould, S. J., Mihalik, S. J. L-pipecolic acid oxidase, a human enzyme essential for the degradation of L-pipecolic acid, is most similar to the monomeric sarcosine oxidases. Biochem. J. 345: 487-494, 2000.3. IJlst, L., de Kromme, I., Oostheim, W., Wanders, R. J. A. Molecular cloning and expression of human L-pipecolate oxidase. Biochem. Biophys. Res. Commun. 270: 1101-1105, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	60499001
NCBI GeneID	51268
NCBI Accession #	NP_057602.2
NCBI GenBank Nucleotide #	NM_016518.2
UniProt Accession #	Q9P0Z9 ; Q96H28 ; Q9C070 ; B3KNH0
Molecular Weight	44,066 Da
NCBI Official Full Name	peroxisomal sarcosine oxidase

NCBI Official Synonym Full Names	pipecolic acid oxidase
NCBI Official Symbol	PIPOX
NCBI Official Synonym Symbols	LPIPOX
NCBI Protein Information	peroxisomal sarcosine oxidase; PSO; L-pipecolate oxidase; L-pipecolic acid oxidase
UniProt Protein Name	Peroxisomal sarcosine oxidase
UniProt Gene Name	PIPOX
UniProt Synonym Gene Names	LPIPOX; PSO; PSO
UniProt Entry Name	SOX_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pipox-antibody-immunohistochemistry-western-blot-elisa/127656>