

## Product datasheet for **TA396702S**

### P2OX Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Recommended Dilution:	<b>WB:</b> 1:500 - 1:5,000 <b>ELISA:</b> 1:5,000 - 1:20,000
Reactivity:	Microbial
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Pyranose Oxidase [E.coli]
Specificity:	Anti-Pyranose oxidase antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Goat Serum as well as purified and partially purified Pyranose Oxidase [E.coli]. Cross reactivity against Pyranose Oxidase from other sources is unknown.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Biotin
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Database Link:	<a href="#">P79076</a>



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**Background:** Anti-Pyranose oxidase recognizes the oxidoreductase pyranose oxidase. In general, pyranose catalyzes the oxidation of aldopyranoses at the carbon 2 position to form 2-ketoaldoses . Notably, pyranose oxidase catalyzes the conversion of D-glucose and oxygen to 2-dehydro-D-glucose and hydrogen peroxide using flavin adenine dinucleotide (FAD) as a cofactor. Pyranose oxidase also plays a role in the pentose phosphate pathway.

**Synonyms:** goat anti-Pyranose Oxidase Antibody, biotin Conjugated goat anti-Pyranose Oxidase Antibody, P2Ox, Pyranose oxidase, PROD, POD, POx, Pyranose:oxygen 2-oxidoreductase, Glucose 2-oxidase, FAD-oxidoreductase

**Note:** Anti-Pyranose oxidase antibody has been assayed against 1.0 µg of Pyranose Oxidase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:70,000 to 1:350,000 of the reconstitution concentration is suggested for this product.

### Product images:



Rockland Goat anti Pyranose Oxidase antibody (200-101-235 lot 8178) was used to detect pyranose oxidase under reducing (R) and non-reducing (NR) conditions. Reduced samples of purified target proteins contained 4% BME and were boiled for 5 minutes. Samples of ~1 µg of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with 1:3000 dilution of primary antibody (ON 4 C in MB-070). Detection shown was using Dylight 488 conjugated Donkey anti goat (605-741-125 lot 21094 1:10K in TBS/MB-070 1 hr RT) . Images were collected using the BioRad VersaDoc System