

Product datasheet

info@arigobio.com

ARG82188
Peroxidase Activity Assay Kit (Colorimetric)

Package: 100 tests Store at: -20°C

Summary

Product Description ARG82188 Peroxidase Activity Assay Kit (Colorimetric) can be used to measure Peroxidase activity in

serum, plasma, urine, tissue and cell culture supernatants.

Tested Reactivity Hu, Ms, Rat, All

Tested Application FuncSt

Target Name Peroxidase

Conjugation Note Read at 570 nm (colorimetric), or 530/585 nm (fluorometric)

Sensitivity 4 U/L (colorimetric); 0.8 U/L (fluorometric)

Detection Range 2 - 50 U/L (colorimetric); 0.1 - 5 U/L (fluorometric)

Sample Type serum, plasma, urine, tissue and cell culture supernatants

Sample Volume $$10~\mu l$$

Alternate Names TPO; EC 1.11.1.8; TDH2A; Thyroid peroxidase; MSA; TPX

Application Instructions

Application Note Please note that this kit does not include a microplate.

Assay Time 20 min

Properties

Form Liquid

Storage instruction Store the kit at -20°C. Do not expose test reagents to heat, sun or strong light during storage and usage.

Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol TPO

Gene Full Name thyroid peroxidase

Background This gene encodes a membrane-bound glycoprotein. The encoded protein acts as an enzyme and plays

a central role in thyroid gland function. The protein functions in the iodination of tyrosine residues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, thyroxine and triiodothyronine. Mutations in this gene are associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter, and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct isoforms have been identified for this gene, but the full-length nature of some variants has not been determined.

[provided by RefSeq, May 2011]

Function Iodination and coupling of the hormonogenic tyrosines in thyroglobulin to yield the thyroid hormones

T(3) and T(4). [UniProt]

www.arigobio.com arigo.nuts about antibodies 1/2

PTM Glycosylated.

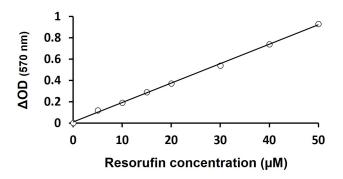
Heme is covalently bound through a H(2)O(2)-dependent autocatalytic process. Heme insertion is important for the delivery of protein at the cell surface.

Cleaved in its N-terminal part. [UniProt]

Cellular Localization

Membrane; Single-pass type I membrane protein. Isoform 3: Cell surface. [UniProt]

Images



ARG82188 Peroxidase Activity Assay Kit (Colorimetric) typical data demonstration image

ARG82188 Peroxidase Activity Assay Kit (Colorimetric) results of a typical data with optical density reading at 570 nm.