

Datasheet for KOA0578**Mouse MPO ELISA Kit****Overview**

Description:	Mouse MPO AccuSignal ELISA Kit - KOA0578
Item No.:	KOA0578
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	156 pg/ml - 10000 pg/ml

Product Details

Background:	Myeloperoxidase(MPO) is a mammalian phagocyte hemoprotein thought to primarily mediate host defense reactions. It is abundantly expressed in neutrophils and secreted during their activation. Myeloperoxidase is part of the host defense system of human polymorphonuclear leukocytes, responsible for microbicidal activity against a wide range of organisms. It is located in the nucleus as well as in the cytoplasm. Intranuclear MPO may help to protect DNA against damage resulting from oxygen radicals produced during myeloid cell maturation and function.
Synonyms:	84 kDa myeloperoxidase, 89 kDa myeloperoxidase, MPO, MPO Myeloperoxidase, Myeloperoxidase, Myeloperoxidase heavy chain, Myeloperoxidase light chain, PERM_HUMAN
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	MPO
Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: M16-T718
Purity/Specificity:	Natural and recombinant mouse MPO. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P11247

- [NCBI - NP_034954.2](#)
- [GeneID - 17523](#)
- [KOA0578 Protocol](#)

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml mouse MPO standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of mouse cell culture supernates, cell lysates, tissue homogenates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse MPO standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	156pg/ml-10000pg/ml
Other:	DOE: 2-8° C - 08/02/2024 -20° C - 02/02/2025

Formulation

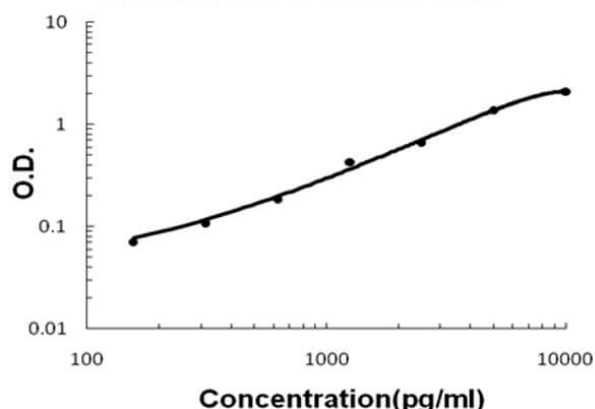
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images

Mouse MPO ELISA Kit



ELISA

Mouse MPO AccuSignal ELISA Kit standard curve. Assay
 Range: 156pg/ml-10000pg/ml. Sensitivity: <10pg/ml.

References

- Qu X et al. Indole-3-acetic acid ameliorates dextran sulfate sodium-induced colitis via the ERK signaling pathway. *Arch Pharm Res.* (2024)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.