

Datasheet for KOA0802**Mouse TIMP-4 ELISA Kit****Overview**

Description:	Mouse TIMP-4 AccuSignal ELISA Kit - KOA0802
Item No.:	KOA0802
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	78 pg/ml - 5,000 pg/ml

Product Details

Background:	Metalloproteinase inhibitor 4 is an enzyme that in humans is encoded by the TIMP4 gene. This gene belongs to the tissue inhibitor of metalloproteinases gene family. The proteins encoded by this gene family are inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. TIMP4 gene is mapped to chromosome 3p25. TIMP4 gene contains 5 exons that span 6 kb of genomic DNA. The gene is expressed as a 1.4-kb transcript abundant in heart and present at low levels in several other tissues. Expressed TIMP4 inhibits MMPs in vitro. What's more, TIMP-4 binds both progelatinase A and the C domain in a similar manner to that of TIMP-2.
Synonyms:	Metalloproteinase inhibitor 4, TIMP 4, TIMP metalloproteinase inhibitor 4, Tissue inhibitor of metalloproteinase 4, Tissue inhibitor of metalloproteinases 4
Detection Kit Type:	ELISA Kit
Detection Range:	78 pg/ml - 5,000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	TIMP4
Reactivity:	Mouse
Immunogen:	Expression system for standard: NSO; Immunogen sequence: C30-P224
Purity/Specificity:	Natural and recombinant mouse TIMP-4. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - Q9JHB3](#)
- [NCBI - NP_542370.3](#)
- [GeneID - 110595](#)
- [KOA0802 Protocol](#)

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 5,000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml, 78pg/ml mouse TIMP-4 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 supernatants, serum or plasma(heparin, EDTA) to each empty well. We recommend that each mouse TIMP-4 standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant:	Heparin Sodium
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Shipping & Handling

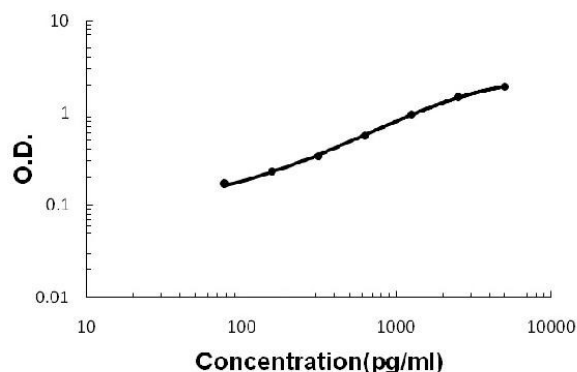
Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C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

Images

Mouse TIMP-4 ELISA Kit

ELISA

Mouse TIMP-4 ELISA Kit standard curve.



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.