

Datasheet for KOA0692**Mouse Betacellulin - BTC ELISA Kit****Overview**

Description:	Mouse Betacellulin/BTC AccuSignal ELISA Kit - KOA0692
Item No.:	KOA0692
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	7.8 pg/ml - 500 pg/ml

Product Details

Background:	Betacellulin, also known as BTC is a protein that in humans is encoded by the BTC gene. This gene is mapped to 4q13.3. The protein encoded by this gene is a member of the EGF family of growth factors. It is synthesized primarily as a transmembrane precursor, which is then processed to mature molecule by proteolytic events. This protein is a ligand for the EGF receptor. It is the growth factor that binds to EGFR, ERBB4 and other EGF receptor family members. This protein is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells.
Synonyms:	Betacellulin precursor, BTC, Probetacellulin
Detection Kit Type:	ELISA Kit
Detection Range:	7.8 pg/ml - 500 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	BTC
Reactivity:	Mouse
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: D32-Y111
Purity/Specificity:	Natural and recombinant mouse BTC. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q05928

- [NCBI - NP_031594.1](#)
- [GeneID - 12223](#)
- [KOA0692 Protocol](#)

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.3pg/ml, 15.6pg/ml, 7.8pg/ml mouse BTC 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, serum or plasma(heparin, EDTA) to each empty well. We recommend that each mouse BTC 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.
ELISA:	7.8pg/ml-500pg/ml
Other:	DOE: 2° -8° C- 10/29/2021 -20° C - 04/29/2022

Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

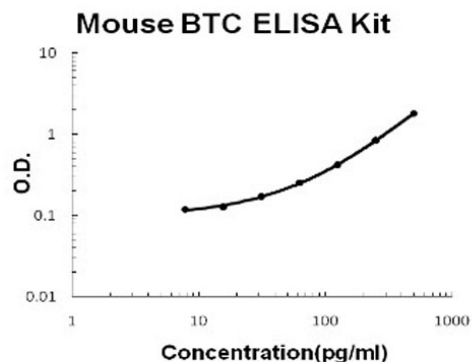
Shipping & Handling

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

ELISA

Mouse Betacellulin/BTC 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.