Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for KOA0858

# Human CD47 ELISA Kit

## Overview

| | |
|---|---|
| **Description:** | Human CD47 AccuSignal ELISA Kit - KOA0858 |
| **Item No.:** | KOA0858 |
| **Size:** | 1 Kit |
| **Applications:** | ELISA |
| **Reactivity:** | Human |
| **Range:** | 125 pg/ml - 8000 pg/ml |

## Product Details

| | |
|---|---|
| **Background:** | CD47 (Cluster of Differentiation 47), also known as integrin associated protein (IAP), is a transmembrane protein that in humans is encoded by the CD47 gene. It belongs to the immunoglobulin superfamily and partners with membrane integrins and also binds the ligands thrombospondin-1 (TSP-1) and signal-regulatory protein alpha (SIRPα). CD47 is involved in a range of cellular processes, including apoptosis, proliferation, adhesion, and migration. Furthermore, it plays a key role in immune and angiogenic responses. Also CD47 is ubiquitously expressed in human cells and has found to be overexpressed in many different tumor cells. |
| **Synonyms:** | Antigen identified by monoclonal antibody 1D8, Antigenic surface determinant protein OA3, CD 47, CD47, CD47 antigen (Rh-related antigen, integrin-associated signal transducer), CD47 antigen, CD47 glycoprotein, CD47 molecule, CD47_HUMAN, IAP, Integrin Associated Protein, Integrin associated signal transducer, Integrin-associated protein, Leukocyte surface antigen CD47, MER6, OA 3, OA3, OTTHUMP00000041152, OTTHUMP00000041153, Protein MER6, Rh related antigen |
| **Detection Kit Type:** | ELISA Kit |
| **Detection Range:** | 125 pg/ml - 8000 pg/ml |
| **Sensitivity:** | <10 pg/ml |

## Target Details

| | |
|---|---|
| **Gene Name:** | CD47 |
| **Reactivity:** | Human |

| | |
|---|---|
| **Immunogen:** | Expression system for standard: NSO; Immunogen sequence: Q19-P139 |
| **Purity/Specificity:** | Natural and recombinant human CD47. There is no detectable cross-reactivity with other relevant proteins. |
| **Relevant Links:** | • UniProtKB - Q08722<br>• NCBI - NP_001768.1<br>• GeneID - 961<br>• KOA0858 Protocol |

## Application Details

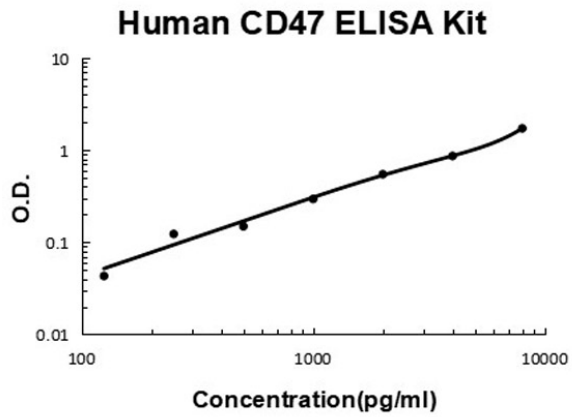
| | |
|---|---|
| **Tested Applications:** | ELISA |
| **Application Note:** | Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 8000pg/ml, 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml human CD47 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates or serum to each empty well. It is recommended that each human CD47 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. |

## Formulation

## 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**
Human CD47 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.