

# ICAM-1 Recombinant Polyclonal Antibody (9HCLC)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	9HCLC
Conjugate	Unconjugated
Immunogen	peptide corresponding to amino acids 504-517 of human Intercellular adhesion molecule-1
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532660

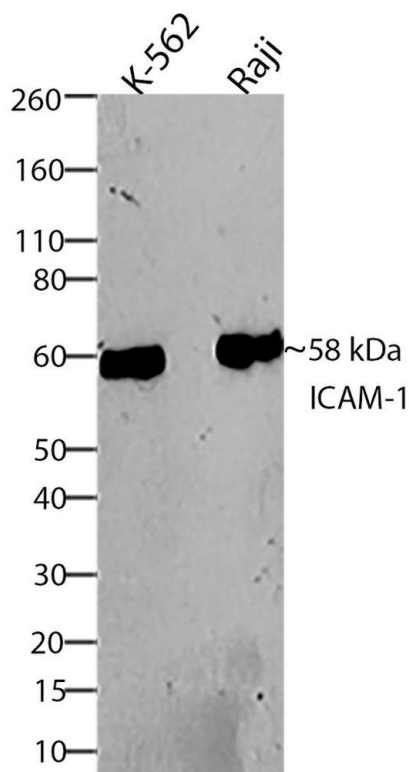
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:5,000	1 Publication
Immunocytochemistry (ICC/IF)	1:100-1:1,000	1 Publication
ChIP assay (ChIP)	1 µL	-

## Product Specific Information

This antibody is predicted to react with mouse, rat, non-human primate and rabbit based on sequence homology.

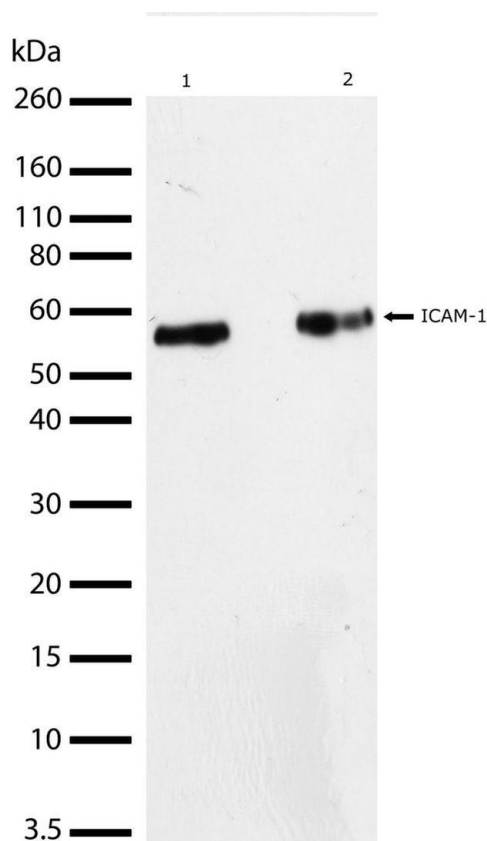
Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

## Product Images For ICAM-1 Recombinant Polyclonal Antibody (9HCLC)



#### ICAM-1 Antibody (710278) in WB

Western blot analysis of ICAM-1 was performed by loading 30 µg of K562 and Raji cell lysates using Novex®NuPAGE®4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Proteins were transferred to a PVDF membrane and blocked with 5% skim milk for 1 hour at room temperature. ICAM-1 was detected at ~58 kDa using ICAM-1 Recombinant Rabbit Polyclonal Antibody (Product # 710278) at a 1:1000 dilution in 2.5% skim milk at 4°C overnight on a rocking platform. Detection was performed using an HRP-conjugated Goat anti-Rabbit secondary antibody (Product # G-21234) at a 1:5000 dilution and chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).

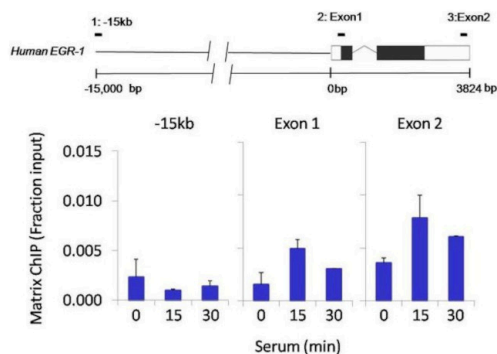


#### ICAM-1 Antibody (710278) in WB

Western blot analysis of ICAM-1 in whole cell extracts from K562 cells (lane 1), and Raji cells (lane 2) using an ICAM-1 Recombinant Rabbit Polyclonal Antibody (Product # 710278) at a dilution of 1 µg/mL. Samples were detected using chemiluminescence (ECL). Results show a band at ~58kDa.

## ICAM-1 Antibody (710278) in ChIP

Chromatin immunoprecipitation analysis of ICAM-1/CD54 was performed using cross-linked chromatin from  $1 \times 10^6$  HCT116 human colon carcinoma cells treated with serum for 0, 15, and 30 minutes. Immunoprecipitation was performed using a multiplex microplate Matrix ChIP assay (see reference for Matrix ChIP protocol: <http://www.ncbi.nlm.nih.gov/pubmed/22098709>) with  $1.0 \mu\text{L}$  /  $100 \mu\text{L}$  well volume of an ICAM-1/CD54 Recombinant Rabbit Polyclonal Antibody (Product # 710278). Chromatin aliquots from  $\sim 1 \times 10^5$  cells were used per ChIP pull-down. Quantitative PCR data were done in quadruplicate using  $1 \mu\text{L}$  of eluted DNA in  $2 \mu\text{L}$  SYBR real-time PCR reactions containing primers to amplify  $\sim 15\text{kb}$  upstream of the human Egr-1 locus, or exon-1 or exon-2 of Egr-1. PCR calibration curves were generated for each primer pair from a dilution series of sheared total genomic DNA. Quantitation of immunoprecipitated chromatin is presented as signal relative to the total amount of input chromatin. Results represent the mean  $\pm$  SEM for three experiments. A schematic representation of the Egr-1 locus is shown above the data where boxes represent exons (black boxes = translated regions, white boxes = untranslated regions), the zigzag line represents an intron, and the straight line represents upstream sequence. Regions amplified by Egr-1 primers are represented by black bars. Data courtesy of the Innovators Program.



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## 2 References

### Western Blot (1)

Proteome science

**Pepsin-pancreatin protein hydrolysates from extruded amaranth inhibit markers of atherosclerosis in LPS-induced THP-1 macrophages-like human cells by reducing expression of proteins in LOX-1 signaling pathway.**

"710278 was used in immunocytochemistry and western blot to compare the anti-atherosclerotic potential of pepsin-pancreatin hydrolysates from unprocessed and extruded amaranth in THP-1 lipopolysaccharide-induced human macrophages."

Authors: Montoya-Rodríguez A, Milán-Carrillo J, Dia VP, Reyes-Moreno C, González de Mejía E

Year  
2014

Species  
Human

### Immunocytochemistry (1)

Proteome science

**Pepsin-pancreatin protein hydrolysates from extruded amaranth inhibit markers of atherosclerosis in LPS-induced THP-1 macrophages-like human cells by reducing expression of proteins in LOX-1 signaling pathway.**

"710278 was used in immunocytochemistry and western blot to compare the anti-atherosclerotic potential of pepsin-pancreatin hydrolysates from unprocessed and extruded amaranth in THP-1 lipopolysaccharide-induced human macrophages."

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