## **CD44 Antibody**

Rabbit Polyclonal

Antigen Affinity Purified Protein ID NP\_000601.3

Catalog No. A303-872A GeneID 960

Lot No. A303-872A-12

**APPLICATIONS** WB, IP, IHC

SPECIES REACTIVITY Human, Mouse

PRESUMED REACTIVITY Based on 100% sequence identity, this antibody is predicted to react with Bovine, Horse and

Golden hamster

AMOUNT 100 μl

CONCENTRATION 200 μg/ml

STORAGE/SHELF LIFE 2 - 8° C / 1 year from date of receipt

PHYSICAL STATE Liquid

**BUFFER** Tris-buffered Saline containing 0.1% BSA and 0.09% Sodium Azide

ISOTYPE IgG
ORIGIN USA

**PRODUCTION** Antibody was affinity purified using an epitope specific to CD44 immobilized on solid

**PROCEDURES** support.

The epitope recognized by A303–872A maps to a region between residue 692 and 742 of human Cell Surface Glycoprotein CD44 using the numbering given in entry NP\_000601.3

(GeneID 960).

Antibody concentration was determined by extinction coefficient: absorbance at 280 nm of

1.4 equals 1.0 mg of IgG.

**APPLICATIONS** Centrifuge tube to remove product from lid. Optimal working dilutions should be determined

experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot 1:2,000 - 1:10,000

Immunoprecipitation 2 – 10 µg/mg lysate

Immunohistochemistry 1:1,000 to 1:5,000. Epitope retrieval with citrate buffer pH6.0 is

recommended for FFPE tissue sections.

IHC HUMAN CONTROLS Colon Carcinoma, head and neck squamous cell carcinoma, Ovarian Carcinoma, Skin Melanoma,

Testicular Seminoma

IHC MOUSE CONTROLS Colon Carcinoma CT26, Plasmacytoma, Teratoma

ADDITIONAL INFO https://www.bethyl.com/product/A303-872A

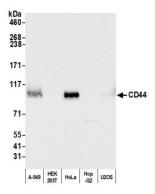
Use the link above to view SDS, a current list of citations, and other product specific information.

IP-western blot protocol: https://www.bethyl.com/content/protocol\_IP\_WB

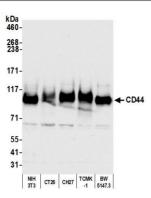
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc. Eric McIntush, PhD | Chief Scientific Officer Date: October 16, 2020



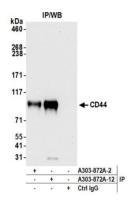
CD44 Antibody A303-872A



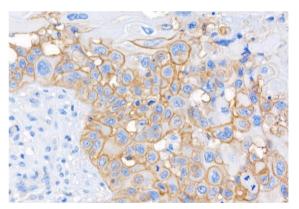
Detection of human CD44 by western blot. Samples: Whole cell lysate ( $10~\mu g$ ) from A-549, HEK293T, HeLa, Hep-G2, and U2OS cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-CD44 antibody A303-872A (lot A303-872A-12) used for WB at 0.04  $\mu g/ml$ . Detection: Chemiluminescence with an exposure time of 3 seconds.



Detection of mouse CD44 by western blot. Samples: Whole cell lysate (50  $\mu$ g) from NIH 3T3, CT26, CH27, TCMK-1, and BW5147.3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-CD44 antibody A303-872A (lot A303-872A-12) used for WB at 0.04  $\mu$ g/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.

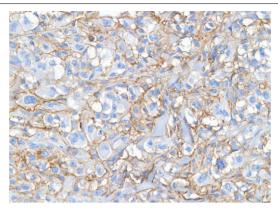


Detection of human CD44 by western blot of immunoprecipitates. *Samples:* Whole cell lysate (0.5 mg for IP; 20% of IP loaded) prepared using NETN buffer from HeLa cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-CD44 antibody A303-872A (lot A303-872A-12) used for IP at 2 µg per reaction. CD44 was also immunoprecipitated by a previous lot of this antibody (lot A303-872A-2). For blotting immunoprecipitated CD44, rabbit recominant monoclonal antibody A700-038 was used 1:1,000. *Detection:* Chemiluminescence with an exposure time of 10 seconds.



Detection of human CD44 by immunohistochemistry. Sample:FFPE section of human head and neck squamous cell carcinoma. *Antibody:*Affinity purified rabbit anti-CD44 (Cat. No. A303-872A Lot12) used at a dilution of 1:5,000 (0.2µg/ml). *Substrate:* DAB

CD44 Antibody A303-872A



Detection of human CD44 by immunohistochemistry. Sample: FFPE section of human melanoma. *Antibody:*Affinity purified rabbit anti-CD44 (Cat. No. A303-872A Lot12) used at a dilution of 1:5,000 (0.2 µg/ml). *Substrate:* DAB