

Product datasheet

Anti-CD44 antibody ab223636

1 Image

Overview

Product name	Anti-CD44 antibody
Description	Goat polyclonal to CD44
Host species	Goat
Specificity	ab223636 is expected to recognize reported isoforms 1, 2, 3, 4, 6, 7, 8 (NP_000601.3; NP_001001389.1; NP_001001390.1; NP_001001391.1; NP_001189484.1; NP_001189485.1; NP_001189486.1).
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Dog 
Immunogen	Synthetic peptide corresponding to Human CD44 aa 149-163 (internal sequence) (Cysteine residue). (NP_000601.3). Sequence: C-NRDGTRYVQKGEYRT Database link: P16070  Run BLAST with  Run BLAST with
Positive control	WB: U-2 OS cell lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	ab223636 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab223636** in the following tested applications.

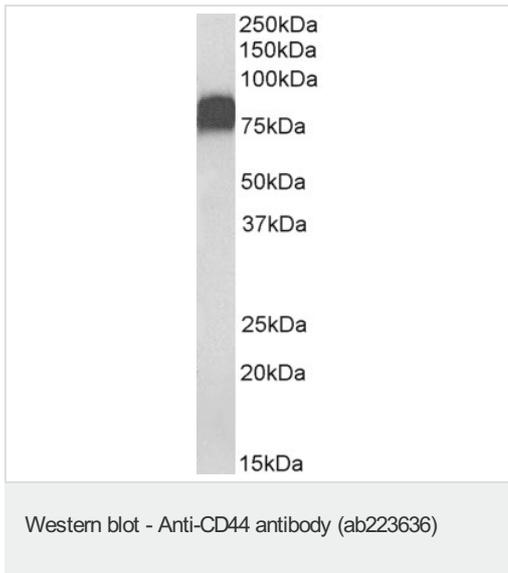
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.01 - 0.03 µg/ml. Detects a band of approximately 75-82 kDa (predicted molecular weight: 81 kDa).

Target

Function	Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events.
Tissue specificity	Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.
Sequence similarities	Contains 1 Link domain.
Domain	The lectin-like LINK domain is responsible for hyaluronan binding.
Post-translational modifications	Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors. N-glycosylated. O-glycosylated; contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s). Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site), and the phosphorylation of Ser-672.
Cellular localization	Membrane.

Images



Anti-CD44 antibody (ab223636) at 0.03 µg/ml + U-2 OS (human bone osteosarcoma epithelial cell line) cell lysate (in RIPA buffer) at 35 µg

Developed using the ECL technique.

Predicted band size: 81 kDa

Observed band size: 75-82 kDa

[why is the actual band size different from the predicted?](#)

Primary incubation was 1 hour.

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