

**R1054HRPS****Polyclonal Antibody to Aldolase A / ALDOA - HRP**

**Alternate names:** ALDA, Fructose-bisphosphate aldolase A, Lung cancer antigen NY-LU-1, Muscle-type aldolase, NY-LU-1

**Quantity:** 0.1 mg

**Concentration:** 1.0 mg/ml (by UV absorbance at 280 nm)

**Uniprot ID:** [P00883](#)

**NCBI:** [NP\\_001075707.1](#)

**GeneID:** [100009055](#)

**Host:** Goat

**Immunogen:** Aldolase from rabbit muscle

**Format:** **State:** Lyophilized purified Ig fraction.

**Purification:** Delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer

**Buffer System:** 0.02 M Potassium phosphate, 0.15 M Sodium chloride, pH 7.2

**Preservatives:** 0.01% (w/v) Gentamicin sulfate (Do NOT add Sodium azide!)

**Stabilizers:** 10 mg/ml BSA (immunoglobulin and protease free)

**Label:** HRP – Horseradish peroxidase

**Reconstitution:** Restore with 0.1 ml of deionized water (or equivalent).

**Applications:** **Western blot:** 1/500-1/5,000.

**Immunoprecipitation:** 1/100.

Use approximately 5 µl of antibody to immunoprecipitate 50 µl of protein lysate.

**ELISA:** 1/5000-1/20,000.

This antibody has been assayed against 1.0 µg of aldolase [rabbit muscle] in a standard capture ELISA using ABTS as a substrate for 30 minutes at room temperature. A working dilution of 1/1,000 to 1/2,000 of the reconstitution concentration is suggested.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:** This antibody detects rabbit aldolase. Cross reactivity against aldolase from human tissues is known. Crossactivity against aldolase from other tissues and species may also occur.

Immunoelectrophoresis gives a single precipitin arc against anti-goat serum, purified and partially purified aldolase [Rabbit muscle].

It has been reported that this antibody can detect human Aldolase on immunoblot showing a 41 kDa band in lysates from MCF7, NMB231 and HBL100 cell lines.

**Species:** Rabbit, Human.

Other species not tested.

**Storage:**

Store lyophilized at 2-8°C for 6 months or at -20°C long term.  
After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.  
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Shelf life: one year from despatch.

**Caution:**

Do NOT add Sodium azide!

**Pictures:**

IgG purified antibody to rabbit muscle aldolase (R1054, R1054P and R1054HRP) was used at a 1/1000 dilution to detect human aldolase by western blot. A whole cell lysate prepared from human derived A293 cells was loaded on a 4-12% tris glycine gradient gel for SDS-PAGE. The gel was transferred to nitro-cellulose using standard techniques. Antibody reaction with the membrane occurred overnight at 4° C in TTBS supplemented with 2% non-fat dry milk. Color was allowed to develop using SuperSignal West Pico Chemiluminescent Substrate (PIERCE). Other detection methods will yield similar results. This antibody clearly detects a band at ~41 kDa consistent with human aldolase.

