

## Polyclonal Antibody to PTPN22 - Aff - Purified

**Catalog No.:** 15-288-21502A

**Quantity:** 0.1 mg

**Concentration:** 1.0 mg/ml

**Background:** Integrins are a family of heterodimeric membrane glycoproteins consisting of non-covalently associated  $\alpha$  and  $\beta$  subunits. More than 18  $\alpha$  and 8  $\beta$  subunits with numerous splice variant isoforms have been identified in mammals. In general, integrins function as receptors for extracellular matrix proteins. Certain integrins can also bind to soluble ligands or to counter-receptors on adjacent cells, such as the intracellular adhesion molecules (ICAMs), resulting in aggregation of cells. Signals transduced by integrins play a role in many biological processes, including cell growth, differentiation, migration and apoptosis. For integrin subunits  $\alpha 3$  and  $\alpha 6$ , two cytoplasmic variants, A and B, have been identified.

**Host / Isotype:** Chicken

**Immunogen:** 1A10 is a mouse monoclonal IgG1,  $\kappa$  antibody derived by fusion of SP2/0 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with a synthetic peptide corresponding to the C-terminal 28 amino acids of integrin  $\alpha 6A$  including an appending N-terminal cysteine (CKKDHYDATYH-KAEIHAQPSDKERLTSDA) coupled to keyhole limpet hemocyanin.

**Format:** **State:** Liquid purified IgG fraction.

**Buffer System:** PBS with 0.09% Sodium Azide as preservative.

**Applications:** Suitable for Immunoblotting, Immunocytochemistry, Immunohistochemistry on frozen sections.  
Recommended dilutions: 1/100-1/200 for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent and 1/100-1/1000 for Immunoblotting applications.  
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:** This antibody reacts exclusively the cytoplasmic domain of non-phosphorylated integrin subunit  $\alpha 6A$ .

1A10 stains the basement membrane zone of skin, myoepithelial cells in sweat glands, peripheral nerves, sebaceous glands and some blood vessels in the dermis

A broad species reactivity is expected because of the conserved nature of the epitope.

**Species:** Human.

Others not tested.

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

**Storage:**

Store the antibody (undiluted) at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freeze-thaw cycles.  
Shelf life: One year from despatch.

**General References:**

1. Hogervorst, F., Admiraal, L. G., Niessen, C., Kuikman, I., Janssen, H., Daams, H., and Sonnenberg, A. (1993). Biochemical characterization and tissue distribution of the A and B variants of the integrin alpha 6 subunit, J Cell Biol 121, 179-91.

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