

## DATASHEET

### Anti-HA (clone 12CA5)

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Mouse monoclonal antibody

For Laboratory Use Only.  
Not for Use in Diagnostic Processes.

Quantity: 200 µg

Cat. #: 7801-01

#### Product Description

The HA Tag (hemagglutinin tag) is an epitope tag, commonly used to localize gene products in many types of cultured cells, to study the topology of proteins and protein complexes. Anti-HA is especially useful whenever no primary antibody against the protein of interest is available, mostly because it is less immunogenic and low abundant.

Monoclonal Anti-HA is directed against a peptide epitope of the hemagglutinin (HA) glycoprotein derived from recombinant hemagglutinin protein (aa 98-106) of the human influenza virus. The antibody is used for the immunodetection and functional characterization of native and denatured protein. It is frequently used for the detection and characterization of recombinant expressed HA-tagged proteins *in vivo* and *in vitro* or proteins containing the epitope YPYDVPDYA. Anti-HA facilitates protein detection in all blotting techniques, immunofluorescence & -chemistry and co-immunoprecipitation of tagged proteins.

Anti-HA is protein G purified from cell culture supernatant with a resulting purity of ~99% as determined by SDS-PAGE. The antibody has an isoelectric point of 6.4 and is subtype-classified as IgG<sub>2b</sub>κ. The affinity given by the dissociation constant is:  $K_d = 1 \times 10^8 / M$ .

#### Reconstitution of Anti-HA

Add 0.1ml Glycerol-PBS to the lyophilized antibody to reconstitute a 1mg/ml stock solution. Vortex for 10sec until completely dissolved. We recommend to aliquot the antibody stock solution (e.g. 20µl/aliquot) for storage at -20°C. Final concentrations of the antibody buffer: 0.01M sodium phosphate, 0.1M NaCl, pH 7.4, 0.2mM NaN<sub>3</sub> in 50% glycerol.

#### Working Dilution

Each individual user should determine the optimum working dilution empirically for the systems. We recommend starting with dilutions for western blotting of 1:200-1:2000, immunoprecipitations 1-2µg per 100-500µl of total protein/ml and for immunofluorescence 1-10µg/ml.

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