

Antibody Applications

Antibodies are being used in a wide range of biochemical techniques. We listed most of them below but more techniques are being invented on a regular basis.

Applications	Abbreviation	Description
Chromatin Immunoprecipitation	ChIP	Used to determine the location of DNA binding sites in the genome for a particular protein of interest.
Dot Blot	-	Used to detect the presence of a substance.
Enzyme-Linked ImmunoSorbent Assay	ELISA	Detects the presence of a substance in a sample.
Flow Cytometry	FC	Used to analyze cells or subcellular components by fluorescence emissions.
Immunofluorescence	IF	Used to localize antigens in cells or in a tissue section by a fluorescent tag.
Immunohistochemistry	IHC	Used to localize antigens in cells or in a tissue section.
Immunoprecipitation	IP	Technique used to enrich a protein or protein complex from a mixture.
Neutralization	Neut.	A neutralizing antibody is capable of binding the antigen and neutralizing the biological effects of that antigen.
Radioimmunoassay	RIA	A method used to measure the amount of a substance by a radioactive label.
Western Blotting	WB	Used to detect specific antigens in a sample by applying gel electrophoresis techniques.

Some of the most widely used antibody applications are described in detail in the following pages.

- *ELISA*
- *Western Blot*
- *Immunohistochemistry*
- *Immunofluorescence*
- *Flow Cytometry*
- *Immunoprecipitation*

For research purposes only ! Not for therapeutic or diagnostic purposes in humans or animals !