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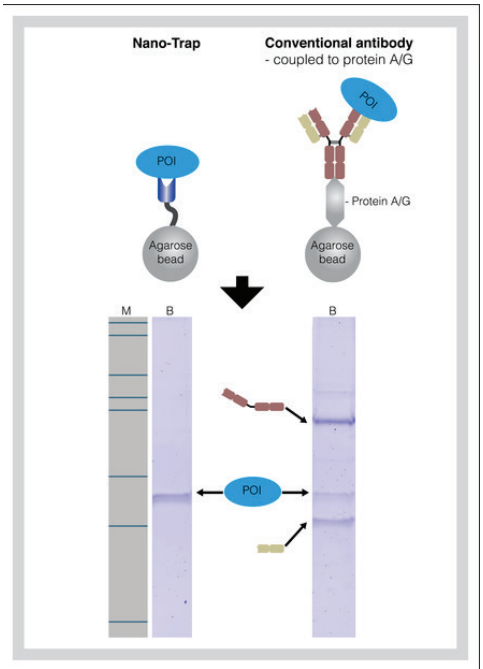
new tools for better research

NANO-TRAPS



Nano-Traps are ideal for **fast, reliable and efficient one-step immunoprecipitations.**

They pull down your proteins of interest (POI) and their interacting factors from cell extracts or organelles.
Nano-Traps consist of a VHH, also termed nanobody, coupled to an immobilizing matrix (see Technology).

You can use Nano-Traps for a multitude of biochemical analyses such as:

- Immunoprecipitation (IP) / Co-IP
- Mass spectrometry
- Enzyme activity measurements
- ChIP / RIP analysis

Benefits

- No heavy and light chains in your downstream gel and mass spectrometry analysis
- High binding affinity: Dissociation constants down to 1pM
- Short incubation times; reliable and consistent results
- More than 1.000 publications
- Fulfills highest requirements on antibody validation: Structure and function characterized

Case rappresentate

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Technology

Beside conventional antibodies, Camelidae (alpacas, llamas, camels and dromedaries) possess a second type of antibodies called heavy chain antibodies (hcAbs). HcAbs are devoid of light chains and bind their antigen via a single variable domain (VHH), also known as nanobody. These VHH domains have excellent binding properties and can be produced at constant high quality without batch-to-batch variations.

Nano-Traps compared to conventional antibodies at a glance:

Nano-Traps	Conventional antibodies
Ready to use	Additional incubation step for binding of antibodies to protein A/G beads
No heavy & light antibody chains in your downstream application	Contaminating heavy & light antibody chains may appear in your downstream application
Very high binding affinities	Low to high binding affinities
Harsh wash conditions may be applied for selective protein-protein interactions	Limited buffer/reagent compatibility of IgG
Short incubation times of 5-30 minutes	Considerable incubation times of twice minimum 1 hour; this may interfere with low affinity interaction partners if you perform Co-IP
High reproducibility due to recombinant expression with very low batch to batch variation	Reproducibility can be high dependent on monoclonal – but polyclonal can be different
Validated and well characterized	Validation status depends on individual antibody
In general not suitable as detection antibody in Western Blot; however there are exceptions from this lecture books' rule	Can generally be used as detection antibody in Western Blot

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