

# NMab ProtL

## Protein L affinity resin

NMab ProtL is designed for purification antibody fragments which incorporate the kappa light chain. It is an affinity resin prepared by immobilizing recombinant protein L ligands onto a rigid highly cross-linked agarose matrix through epoxy activation. Protein L exhibits a potent affinity towards the variable region of the antibody kappa light chain.

NMab ProtL is widely used for capture of antibody fragments such as Fabs, single domain antibodies (dAbs), and single-chain fragment variables (scFv), etc.

**Table 1. Characteristics of NMab ProtL**

Product name	NMab ProtL
Chromatography technique	Protein L affinity
Matrix	Highly cross-linked agarose
Coupling chemistry	Epoxy activation
Dynamic binding capacity	~75 mg·mL <sup>-1</sup> (Fab, 5 min retention time)
Maximum Pressure	0.3 MPa
CIP	6 M guanidine hydrochloride
Recommended flow rate	100-500 cm/h
pH stability	2-10
Chemistry stability	Stable in commonly used buffers, 20 mM sodium phosphate, 1% SDS, 6 M guanidine hydrochloride, 70% ethanol, 6 M urea, etc. Avoid long-term exposure to strong acids or strong bases.
Storage	2-8 °C, 20% Ethanol

**Table 2. Affinity capacity of protein L with respect to different species of antibodies.**

Species	Antibody Class	Affinity
General	Kappa light chain	Strong
	Lambda light chain	No binding
	Heavy chain	No binding
	Fab	Strong
	ScFv	Strong
	Dab	Strong
Human	IgG1	Strong
	IgG2	Strong
	IgG3	Strong
	IgG4	Strong
	IgA	Strong
	IgD	Strong
Mouse	IgE	Strong
	IgM	Strong
	IgG1	Strong
	IgG2a	Strong
	IgG2b	Strong
	IgG3	Strong
Rat	IgM	Strong
	IgG1	Strong
	IgG2a	Strong
	IgG2b	Strong
Pig	IgG2c	Strong
	Total IgG	Strong
	Total IgG	Weak
Dog	IgG1	No binding
	IgG2	No binding
Cow	IgG1	No binding
	IgG2	No binding
Goat	IgG1	No binding
	IgG2	No binding
Sheep	IgG1	No binding
	IgG2	No binding