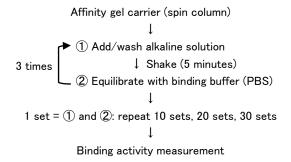


# Ab-Capcher<sup>TM</sup> and Ab-Capcher ExTra<sup>TM</sup> Resistance to alkaline washing

### Activity measurement

# Human serum gamma globulin solution (40 mg/mL) ↓ Add to affinity gel (spin column) ↓ Shake (1 hour) ↓ Wash (PBS) ↓ Elute with 0.1 M Glycine-HCl (pH 2.8) (Add 1 M Tris to neutralize) ↓ A280nm measurement

# Alkaline washing



# Activity measurement result

Number of NaOH washes and antibody binding amount

### 0.5 N NaOH wash

Ligand immobilized gel	Human IgG binding amount (mg/mL gel)				
	Untreated	10 washes	20 washes	30 washes	
Ab-Capcher™	71.1 (100%)	69.5 (97.8%)	61.8 (87.0%)	60.3 (84.8%)	
Ab-Capcher ExTra <sup>™</sup>	94.9 (100%)	90.6 (95.4%)	79.3 (83.6%)	77.4 (81.6%)	

### 1.0 N NaOH wash

Ligand immobilized gel	Human IgG binding amount (mg/mL gel)				
	Untreated	10 washes	20 washes	30 washes	
Ab-Capcher™	73.0 (100%)	62.4 (85.5%)	51.7 (70.8%)	42.0 (57.6%)	
Ab-Capcher ExTra <sup>™</sup>	98.3 (100%)	86.7 (88.2%)	69.8 (71.0%)	58.7 (59.7%)	

Ab-Capcher<sup>TM</sup> and Ab-Capcher ExTra<sup>TM</sup>, alkaline-stable Protein A-R28 immobilized on highly cross-linked agarose, have been evaluated as gel carriers that can be washed with alkali. Therefore, alkali washing was performed with a highly alkaline solution to verify alkali resistance. It was found that Ab-Capcher<sup>TM</sup> and Ab-Capcher ExTra<sup>TM</sup> retain IgG binding capacity of 80% or more after repeated washing with 0.5N NaOH (30 washes) and 1N NaOH (10 washes).

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