

EndoTrap® User Applications



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EndoTrap® Performance:

- ★★ excellent
- ★ good
- no information yet
- unfavourable

* information from the user

as of 29 January 2016

Sample	EndoTrap HD	EndoTrap red	Reference
Antibodies			
antibody (produced in HEK cells)	★★	•	*
anti-CD14 Fab	★★	★★	*
anti-GCP-2 antibodies (granulocyte chemotactic protein 2)	★★	★★	Journal, Kelchtermann <i>et al.</i>
fusion protein with mouse IgG2a	•	★	*
IgA	See Hyglos application note: LPS removal from antibodies		
IgG1 Fab	•	★★	*
IgG1 full-length	★★	•	*
nanobody / single-domain antibody	•	★★	*
single chain antibodies	★★	•	*

Antigens & Allergens

Ara h 2 (peanut <i>Arachis hypogaea</i> allergen)	•	★★	Journal, Starkl <i>et al.</i>
Bet v. 1.0101 (birch <i>Betula</i> pollen antigen)	★★	★	Journal, Hoflehner <i>et al.</i>

Sample	EndoTrap HD	EndoTrap red	Reference
CTB-Bet v 1a fusion protein (B subunit of cholera toxin <i>Vibrio cholera</i> + birch <i>Betula</i> pollen antigen)	★★	•	Journal, Bublin <i>et al.</i>
Bla g1, Bla g2 (cockroach antigens, CRA)	★	•	Poster, Natarajan
crude peanut extract	★★	•	*
Dau c1 (carrot <i>Daucus carota</i> antigen)	★★	•	Journal, Reese <i>et al.</i>
grass pollen allergens	★★	•	*
house dust mite extract (HDE)	★★	•	*
major mugwort pollen allergen Art v 1, recombinant	★★	•	*
MF6p/FhHDM-1 (liver fluke <i>Fasciola hepatica</i> antigen)	•	★	Journal, Martínez-Sernández <i>et al.</i>

Nucleic Acids

Chimeric SBR-GLU [E.coli BL21 (DE3)] "saliva-binding region (SBR) glucan-binding region (GLU)"	★★	•	*
genomic lactobacilli DNA	★★	-	Journal, Luyer <i>et al.</i>
plasmid DNA	★★	-	*
RNA	★★	-	*

Proteins expressed in *Escherichia coli*

a3 (IV) NC1 collagen	★	•	*
anthrax toxin, protective antigen & lethal factor [E. coli BL21]	•	★★	Journal, Devera <i>et al.</i>
BSA spiked with LPS from <i>E. coli</i> 0127:B8	★★	•	*

Sample	EndoTrap HD	EndoTrap red	Reference
Apolipoprotein H / beta-2 glycoprotein I Domain I (N-terminal) [BL21*DE3]	★★	•	Journal, McDonnell <i>et al.</i>
EN01 (mouse alpha-enolase)	★★	•	Journal, Guillou <i>et al.</i>
<i>E. coli</i> enterotoxin, heat-labile, B subunit	•	★★	Journal, Ji <i>et al.</i>
F4 fimbriae	★★	•	Journal, Luo <i>et al.</i>
fusion protein with maltose binding protein [<i>E. coli</i> BL21 & CAJ629]	★★	•	*
Galectin 3 [<i>E. coli</i> BL21 (DE3)]	•	★ ¹	Journal, Novak <i>et al.</i>
heat shock protein HSP70 [<i>E. coli</i> BL21 (DE3) pLysS]	★★	•	*
heat shock protein HSP70 [DnaK strain WKG191]	★★	•	*
intracellular human proteins	★★	•	*
L-Lysin-Oxidase	★★	•	*
NS3 protease from Hepatitis C virus	★★	•	Patent, Kojima <i>et al.</i>
recombinant protein and proteins from cell extracts [<i>E. coli</i> , human Granulocyte]	•	★★	*
recombinant protein [<i>E. coli</i> BL21 pLysS]	★★	•	*
PLY (<i>Streptococcus pneumoniae</i> pneumolysin)	•	★★	Journal, Alhamdi <i>et al.</i>
proteins from Rosetta DE3pLacI	★★	•	*
proteins from Rosetta™ strain (Novagene)	★★	—	*

¹ Galectins specifically bind β -galactosides which may be part of endotoxin/LPS structures. Use of EndoTrap® HD and high salt concentrations (up to 1 M) allow high recovery.

Sample	EndoTrap HD	EndoTrap red	Reference
S-100 protein	•	★★	*
<i>Staphylococcus</i> exotoxin	•	★★	*
Transglutaminase [<i>E. coli</i> BL21(DE3)]	★★	•	*

Proteins from other sources

ADAM10 prodomain "disintegrin metalloproteinase"	★★	•	Journal, Moss <i>et al.</i>
beta-tubulin (<i>Trypanosoma danilewskyi</i>)	★	★	Journal, Katzenback <i>et al.</i>
C5a (human, recombinant)	★★	•	Journal, Soederholm
CD40L	★	•	Journal, Katzenback <i>et al.</i>
CIDR-1alpha (cysteine interdomain region-1alpha)	★★	•	Journal, Ndungu <i>et al.</i>
cRALBP "cellular retinaldehyde-binding protein"	★	★★	Journal, Deeg <i>et al.</i>
Cystatin (cysteine protease inhibitor; nematode <i>Heligmosomoides polygyrus</i>)	★	•	*
CysTNF (Cys-Tumor Necrosis Factor)	•	★★	Journal, Branschädel <i>et al.</i>
DARPin (Designed Ankyrin Repeat Protein)	•	★★	*
EDA, EDA-SIINFEKL, EDA-Ova EDA (extra domain A) from Fibronectin	★★	•	Journal, Lasarte <i>et al.</i>
Fibronectin (mouse <i>mus musculus</i>) "glycoprotein"	★★	•	*
GDAPC (Gla-domainless activated protein C)	★★	•	*
GAD 65 (Glutamic Acid Decarboxylase 65)	★	★	Journal, He <i>et al.</i>

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Gluten - " <i>amorphous ergastic protein</i> "	★★	•	*
glycoprotein (90% Carbohydrate from plant material)	★★	•	*
Granzyme A (human NK92 cells)	★★	•	Journal, Spencer <i>et al.</i>
Hemoglobin/methemoglobin (bovine <i>Bos Taurus</i> hemolysate)	★★	•	Journal, Kwon <i>et al.</i>
His-tagged RAP (Receptor Associated Protein)	★★	•	*
HSP60 (heat shock protein 60)	★★	•	Journal, Osterloh <i>et al.</i>
IL-8 (Interleukin-8; recombinant)	•	★★	*
SIR2 (silent information regulatory 2 protein; <i>Leishmania major</i> , recombinant from <i>L. infantum</i>)	•	★★	Journal, Silvestre <i>et al.</i>
Leukotoxin (<i>Actinobacillus actinomycetemcomitans</i>)	★	•	*
Lipocalin (human, recombinant)	•	★★	*
MHC II (Major Histocompatibility Complex class II)	★★	•	*
Muramylamidase from Gamma-Phage	★★	•	*
MSA (Murine serum albumin)	★★	•	*
Native HIV-1 envelope & Adenovirus Hexon	★	•	*
PfMIF protein (<i>P. falciparum</i> Macrophage-migration Inhibitor Factor)	★★	•	Journal, Cordery <i>et al.</i>
plasma protein (human)	★★	•	*
Plasminogen (Pg)	•	•	Journal, Gonzalez-Gronow <i>et al.</i>

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protease	★★	•	*
16K PRL (Prolactin Growth Hormone; human, recombinant)	★★	•	Journal, Nguyen <i>et al.</i>
Nef-protein (negative factor, HIV; recombinant)	★★	•	Journal, Mangino <i>et al.</i>
RBP4 (Retinol binding protein 4; recombinant)	★★	•	Journal, Yang <i>et al.</i>
SAP (serum amyloid P component; human)	•	★★	Journal, MacDonald <i>et al.</i>
<i>Schistosoma mansoni</i> , recombinant protein	•	★★	*
Shiga toxins (Stx1 and Stx2)	★★	•	Journal, Griener <i>et al.</i> ; Brandelli <i>et al.</i>
secretory polypeptide	★★	•	*
TGF-beta (Transforming Growth Factor-beta; goldfish, recombinant)	•	★★	Journal, Haddad <i>et al.</i>
TmHU (hyperthermostable eubacterium <i>Thermotoga maritime</i>) "histone-like protein"	★★	★	Journal, Immisch
TNF alpha-2 (Tumor Necrosis Factor alpha-2; recombinant)	•	★★	Journal, Grayfer <i>et al.</i>
transcription factor	★★	•	*

Others

beta-glucan "unique polysaccharide derived from baker's yeast"	★★	•	*
phage particles	★★	•	*
small peptides	★★	•	*
synthetic peptidoglycan structures	★★	•	*



EndoTrap[®] User Applications



Sample	EndoTrap HD	EndoTrap red	Reference
T4 bacteriophages	★★	•	Journal, Majewska <i>et al.</i>