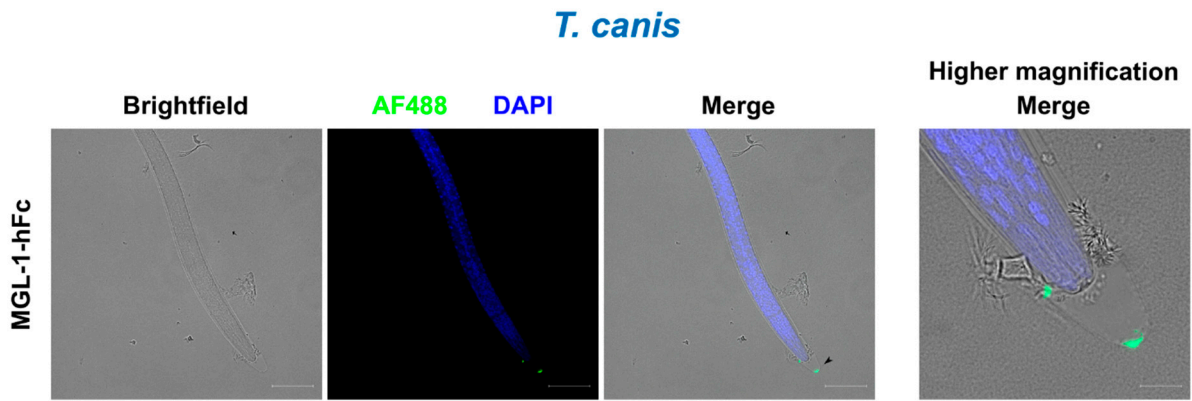


## **Supplementary Material**

***Toxocara canis* and *Toxocara cati* somatic and excretory-secretory antigens are recognised  
by C-type lectin receptors**

Marie-Kristin Raulf, Bernd Lепенies, Christina Strube



**Figure S1. MGL-1 binds to the remaining sheath of *T. canis* second stage larva.** Scale bar represents 50  $\mu\text{m}$  for lower magnification (left images) and 10  $\mu\text{m}$  for higher magnification (right image). Green fluorescence: CLR-hFc fusion protein, blue fluorescence: DAPI-stained DNA.

**Table S1. Statistical analysis of *Toxocara* spp. antigens binding to CLR-hFc fusion proteins in ELISA-based studies.** The table shows *P*-values of respective *Toxocara*/CLR binding compared to *Toxocara*/hFc binding (negative control) by paired, two-tailed Student's *t*-test. Results were considered statistically significant if  $P \leq 0.05$  (printed in bold). TSOM: *Toxocara* somatic antigen, TES: *Toxocara* excretory-secretory antigen, EDTA: ethylenediamine tetraacetic acid (test for  $\text{Ca}^{2+}$  dependency), n.d.: not determined, \*: mean OD values exceeding the threshold of 0.24.

hFc vs.	<i>T. canis</i>				<i>T. cati</i>			
	TSOM	TES	TSOM/ EDTA	TES/ EDTA	TSOM	TES	TSOM/ EDTA	TES/ EDTA
Mincle	<b><math>\leq 0.001^*</math></b>	<b>0.004*</b>	<b>0.038*</b>	<b>0.034</b>	<b>0.001*</b>	<b>0.012</b>	0.051	0.110
Dectin-1	<b>0.002*</b>	<b>0.004*</b>	<b>0.007*</b>	<b>0.015</b>	<b>0.002*</b>	<b>0.004</b>	0.102*	0.100
Dectin-2	<b>0.019*</b>	<b><math>\leq 0.001</math></b>	0.118*	<b><math>\leq 0.001^*</math></b>	<b>0.030*</b>	<b>0.032*</b>	0.056*	0.147*
SIGNR3	<b>0.011</b>	<b>0.011</b>	<b>0.033</b>	0.087	<b>0.028*</b>	<b>0.013</b>	0.107	0.198
DC-SIGN	<b>0.007*</b>	<b>0.006*</b>	0.061	0.078	<b>0.009*</b>	<b>0.023*</b>	<b>0.048</b>	0.136
CLEC12A	<b>0.006*</b>	<b>0.003</b>	<b>0.027*</b>	0.077	<b>0.021*</b>	<b>0.004</b>	0.089*	0.086
CLEC12B	<b>0.015*</b>	0.053	0.086	0.135	<b>0.006*</b>	<b>0.041</b>	0.113	0.070
MDL-1	0.110	0.070	0.337	0.230	0.164	0.110	0.283	0.143
MGL-1	<b>0.002*</b>	<b><math>\leq 0.001^*</math></b>	0.118	<b>0.050</b>	<b>0.003*</b>	<b>0.001*</b>	0.165	0.209
MCL	<b>0.011*</b>	0.051	0.299	0.337	<b>0.025*</b>	0.071	0.500	0.178
Langerin	<b>0.001*</b>	<b>0.047</b>	<b>0.034*</b>	0.241	<b><math>\leq 0.001^*</math></b>	<b>0.001</b>	<b>0.008*</b>	0.166

**Table S2. Statistical analysis of *Toxocara* spp.-antigens mediating elevated cytokine secretion of WT and MCL<sup>-/-</sup> bone marrow-derived dendritic cells (BMDCs).** The table shows *P*-values of respective *Toxocara* antigen stimulation compared to LPS stimulation by unpaired, two-tailed Student's *t*-test. Results were considered statistically significant if *P* ≤ 0.05 (printed in bold). TSOM: *Toxocara* somatic antigens, TES: *Toxocara* excretory-secretory products.

LPS vs.	IL-6				TNF- $\alpha$			
	<i>T. canis</i>		<i>T. cati</i>		<i>T. canis</i>		<i>T. cati</i>	
	WT	MCL <sup>-/-</sup>	WT	MCL <sup>-/-</sup>	WT	MCL <sup>-/-</sup>	WT	MCL <sup>-/-</sup>
unstimulated	≤ <b>0.001</b>	≤ <b>0.001</b>	≤ <b>0.001</b>	≤ <b>0.001</b>	<b>0.001</b>	≤ <b>0.001</b>	<b>0.001</b>	≤ <b>0.001</b>
TSOM 2.5 $\mu$ g/ml	0.642	<b>0.007</b>	0.175	≤ <b>0.001</b>	0.737	<b>0.017</b>	0.547	<b>0.001</b>
TSOM 25 $\mu$ g/ml	<b>0.002</b>	≤ <b>0.001</b>	<b>0.001</b>	≤ <b>0.001</b>	<b>0.004</b>	<b>0.003</b>	<b>0.003</b>	≤ <b>0.001</b>
TSOM 50 $\mu$ g/ml	<b>0.004</b>	<b>0.007</b>	≤ <b>0.001</b>	≤ <b>0.001</b>	<b>0.005</b>	<b>0.042</b>	≤ <b>0.001</b>	≤ <b>0.001</b>
TES 2.5 $\mu$ g/ml	<b>0.006</b>	0.534	≤ <b>0.001</b>	≤ <b>0.001</b>	<b>0.001</b>	<b>0.033</b>	≤ <b>0.001</b>	≤ <b>0.001</b>