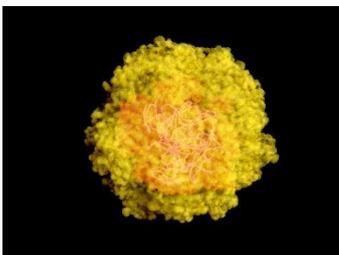


FOR RESEARCH USE ONLY**ZIKAVIRUS DIACHECK ELISA Anti-Zikavirus IgG, IgM and IgA**

Zika virus is spread by the bite of an infected *Aedes* species mosquito (*Ae. aegypti* and *Ae. albopictus*), the same mosquitoes that spread dengue and chikungunya viruses. These mosquitoes are aggressive during the day and night. Zika virus can be transmitted from a pregnant woman to her foetus and infection during pregnancy can cause birth defects. Zika virus infection has been linked to microcephaly in babies, around 4,000 cases of which have been reported since October 2015. There is no vaccine or medicine currently available for Zika.

The DIACHECK ELISA kit is used for the detection of Zika Virus Antibodies, in human serum or plasma.



- **Results in less than 2 hours**
- **High Sensitivity (>97%) & Specificity (>97%)**
- **Ready to use color coded reagents**
- **Break apart wells**

Test performance

Fig.1 - Distribution of reactivity in a blood donor population

Blood donors (Swiss) non endemic region negative population(n=84)	Reactive	
	%	n/N
IgG Reactive 2 (out of 84) 2.38% 'false positive'	2.38	2/84
	'Specificity' 97.62%	
IgM Reactive 2 (out of 84) 2.38% 'false positive'	2.38	2/84
	'Specificity' 97.62%	

Legend: n / N: number of positive samples / total number of tested samples, n. d.: not done.

Relative specificity: As depicted in Fig. 1. A relative specificity of 97.62% was obtained with a Swiss blood donor population for IgG and IgM.

Fig.2 - Distribution of reactivity in an endemic population A with suspected outbreak

Endemic population A from a region with suspected outbreak (n=275)	Reactive	
	%	n/N
Suspected reactive population (n=275) IgG non-reactive 16, reactive 259	94.18	259/275
	94.18% found reactive	
Suspected reactive population (n=275) IgM non-reactive 228, reactive 47	17.09	259/275
	17.09% found reactive	

Legend: n / N: number of positive samples / total number of tested samples, n. d.: not done

Fig.3 - Distribution of reactivity in an endemic population B with suspected outbreak

Endemic population B from a region with suspected outbreak (n=20)	Reactive	
	%	n/N
Suspected reactive population (n=20) IgG non-reactive 4, borderline 1, reactive 15,	75.00	15/20
	75.00 % found reactive	
Suspected reactive population (n=20) IgM non-reactive 12, 1 borderline reactive 7	35.00	7/20
	35.00 % found reactive	

Legend: n / N: number of positive samples / total number of tested samples, n. d.: not done

Fig.4 - Results with patient samples with Zikavirus-infection related symptoms

Tests Performed		JMLID 1	JMLID 2	JMLID 3	JMLID 4	JMLID 5	JMLID 6
sample days after 1st symptoms		6 days	4 days	66 days	68 days	70 days	2 days
in house	PCR CT	33.3	33.04	n/a	n/a	n/a	n/a
Commercial	ELISA IgG	2.21	1.34	4.69	3.11	4.43	0.76
Commercial	ELISA IgM	0.07	0.38	0.3	0.26	0.81	0.13
Diacheck	ELISA IgG	4.697	2.423	5.299	4.521	5.218	2.5
Diacheck	ELISA IgM	0.146	6.354	0.083	6.708	4.396	0.688
	IF Ab	n/a	n/a	n/a	n/a	n/a	n/a
	other	n/a	n/a	n/a	n/a	n/a	n/a
ZYKA SYMPTOMS		yes	yes	yes	yes	yes	yes
Date of 1st Symptoms (Zika)		12.12.2015	14.12.2015	15.12.2015	14.12.2015	14.12.2015	25.02.2016
Date of 1st Guillan Barre Symptoms							
Fever		yes	yes	yes	yes	yes	yes
Skin rash		yes	yes	yes	yes	yes	yes
Joint pain		yes		yes			yes
Myalgia		yes	yes	yes	yes	yes	yes
Conjunctivitis		yes	yes	yes	yes	yes	yes
Eye pain		yes	yes	yes	yes	yes	yes
Headache/Cephalgia			yes	yes	yes	yes	
Diarrhea			yes		yes	yes	
Patient developed GB Syndrom		no	no	no	no	no	no

Product information

Product code	Name of the product	Product size	Storage temperature	Website page
ZKV-116	Anti-ZIKA IgG	96 det.	+2° to +8° C.	https://www.h-h-c.com/product/anti-zika-igg/
ZKV-216	Anti-ZIKA IgM	96 det.	+2° to +8° C.	https://www.h-h-c.com/product/anti-zika-igm/
ZKV-316	Anti-ZIKA IgA	96 det.	+2° to +8° C.	https://www.h-h-c.com/product/anti-zika-iga/

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