

## Journal of Hepatology

### CTAT methods

Tables for a “Complete, Transparent, Accurate and Timely account” (CTAT) are now mandatory for all revised submissions. The aim is to enhance the reproducibility of methods.

- Only include the parts relevant to your study
- Refer to the CTAT in the main text as ‘Supplementary CTAT Table’
- Do not add subheadings
- Add as many rows as needed to include all information
- Only include one item per row

**If the CTAT form is not relevant to your study, please outline the reasons why:**

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#### 1.1 Antibodies

Name	Citation	Supplier	Cat no.	Clone no.
EBNA1		Santa Cruz, Texas,USA	SC-57719	0211
EBNA2		Abcam, Cambridge,UK	Ab90543	PE2
LMP-1		Maixin BIO,Fuhzhou,China	MAB-0063	CS1-4
CK7		Maixin BIO,Fuhzhou,China	MAB-0828	MX053
CK19		ZSGB BIO,Beijing,China	ZM-0074	UMAB2
HepPart-1		Ascend BIO,Guangzhou,China	AM0292	OCH1E5
Arginase-1		ZSGB BIO,Beijing,China	ZA-0615	EP261
CK5/6		Maixin BIO,Fuhzhou,China	MAB-0744	MX040
P40		ZSGB BIO,Beijing,China	ZM-0472	BC28
P63		Roche Ventana,Tucson ,USA	790-4509	4A4
Ki-67		Dako, Copenhagen, Denmark	M7240	MIB-1
CK		Maixin BIO,Fuhzhou,China	Kit-0009	AE1/AE3
CD20		Roche Ventana,Tucson ,USA	760-2531	L26
CD3 $\epsilon$		Roche Ventana,Tucson ,USA	790-4341	2GV6
CD68		Gene,Shanghai,China	GM081429	KP1
CD8		Ascend BIO,Guangzhou,China	AM0063	C8/144B
FoxP3		Abcam, Cambridge,UK	Ab20034	236A/E7
CTLA-4		Abcam, Cambridge,UK	ab237712	CAL49
HLA-DR		Abcam, Cambridge,UK	ab92511	EPR3692
CD163		Gene,Shanghai,China	GT207729	10D6
PD-L1		Roche Ventana,Tucson ,USA	E19424	SP263
PD1		Ascend BIO,Guangzhou,China	AM0326	ZM43
MLH1		Roche Ventana,Tucson ,USA	790-5091	M1

PMS2		Dako, Copenhagen, Denmark	ZA0542	EP51
MSH2		ZSGB BIO, Beijing, China	ZA0622	RED2
MSH6		Roche Ventana, Tucson, USA	790-5092	SP93

## 1.2 Cell lines

Name	Citation	Supplier	Cat no.	Passage no.	Authentication test method
N/A					

## 1.3 Organisms

Name	Citation	Supplier	Strain	Sex	Age	Overall n number
N/A						

## 1.4 Sequence based reagents

Name	Sequence	Supplier
Primer: <i>LMP1</i> , outer, forward (P1)	5'-CAACGACACAGTGATGAACAC-3'	Invitrogen, Shanghai, China
Primer: <i>LMP1</i> , outer, reverse (P2)	5'-GTCATAGTAGCTTAGCTGAAC-3'	Invitrogen, Shanghai, China
Primer: <i>LMP1</i> , inner, forward (P3)	5'-ACCTAGGCGCACCTGGAGGT-3'	Invitrogen, Shanghai, China
Primer: <i>LMP1</i> , inner, reverse (P4)	5'-CAGCAGAGTCGCTAGGGCTA-3'	Invitrogen, Shanghai, China
Primer: <i>BKRF4</i> (H171N), forward	5'-ATCTGAGGGCAGTGATAGCG-3'	Tianyihuiyuan, Wuhan, China
Primer: <i>BKRF4</i> (H171N), reverse	5'-GATGCCCTAAAGAACTCACG-3'	Tianyihuiyuan, Wuhan, China
Primer: <i>BcRF1</i> (T33A), forward	5'-CCCCGAGTAGCACCTCAAAC-3'	Tianyihuiyuan, Wuhan, China
Primer: <i>BcRF1</i> (T33A), reverse	5'-TTCGCAGTCTGTATGCTCCA-3'	Tianyihuiyuan, Wuhan, China
Primer: <i>BKRF4</i> (G169V), forward	5'-ATCTGAGGGCAGTGATAGCG-3'	Tianyihuiyuan, Wuhan, China
Primer: <i>BKRF4</i> (G169V), reverse	5'-GATGCCCTAAAGAACTCACG-3'	Tianyihuiyuan, Wuhan, China
Primer: <i>BOLF1</i> (D1154E), forward	5'-CCTTCTGGTCCGGGGTCTTA-3'	Tianyihuiyuan, Wuhan, China
Primer: <i>BOLF1</i> (D1154E), reverse	5'-AACTCGCGGCCATTCTCCTG-3'	Tianyihuiyuan, Wuhan, China
Primer: <i>BPLF1</i> (S405G), forward	5'-GCGGGTGGTGATTGGTGAGG-3'	Tianyihuiyuan, Wuhan, China
Primer: <i>BPLF1</i> (S405G), reverse	5'-TCACATCCGACTCATTCCCT-3'	Tianyihuiyuan, Wuhan, China

## 1.5 Biological samples

Description	Source	Identifier
Fresh tumors and matched surrounding non-neoplastic tissues	Patients with EBV-associated cholangiocarcinoma	Tumor resource bank of Sun Yat-sen University Cancer Center, Guangzhou, China

Serum	Patients with EBV-associated cholangiocarcinoma	Tumor resource bank of Sun Yat-sen University Cancer Center, Guangzhou, China
Formalin-fixed and paraffin-embedded (FFPE) specimens	Patients with EBV-associated cholangiocarcinoma	Dept. of Pathology, Sun Yat-sen University Cancer Center, Guangzhou, China

## 1.6 Deposited data

Name of repository	Identifier	Link
Research Data Deposit public platform	RDDDB2020000851	<a href="http://www.researchdata.org.cn">www.researchdata.org.cn</a>

## 1.7 Software

Software name	Manufacturer	Version
SPSS Statistics	IBM Corp., Armonk, NY, USA	v.23.0
GraphPad Prism	GraphPad Software Inc., San Diego, CA, USA	v.8
HALO image analysis software	Indica Labs, Inc. Albuquerque, USA	v2.3

## 1.8 Other (e.g. drugs, proteins, vectors etc.)

Name	Supplier	Cat no.
EBV Probe In Situ Hybridization Kit	ZSGB BIO, Beijing, China	ISH-6021

## 1.9 Please provide the details of the corresponding methods author for the manuscript:

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## 2.0 Please confirm for randomised controlled trials all versions of the clinical protocol are included in the submission. These will be published online as supplementary information.

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N/A