

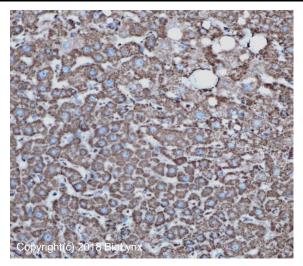
Rev.: 2018/12/5

Predicted Molecular Wt: 20kDa Species Cross-reactivity: Hu, Mu, Rat, Dog, Bovine	, Pig, Chicken, Green mo	•
Species cross-reactivity determined by WB Applications: WB IHC-P IF/ICO	C FC IP	Swissprot ID: P13073
Background: This protein is one of the nuclear-coded polypeptic	le 1 2	<ul> <li>All lanes: Anti-COX IV antibody at 1:5,000 dilution</li> </ul>
chains of cytochrome c oxidase, the terminal oxida	se <sub>250</sub> -	1.5,000 unution
in mitochondrial electron transport.	150-	Predicted MW: 20 kDa
	100-	Observed MW: 17 kDa
	75 -	
	50 _	Lane 1: A431 Lane 2: 293
	37 -	Lane 3: Hela
	05	Lane 4: Raw264.7
	25 <b>-</b> 20 <b>-</b>	
		Lysate at 10 μg per lane 2nd Ab:
	15 - 🖝 🖝	GAR HRP(H+L) 1:5,000
	<sup>10</sup> - Copyright(c) 20	
mmunogen:		
A synthetic peptide corresponding to residues on	1	2 1 5
the N-terminus of human COX IV was used as an	1 2	<sup>3</sup> <sup>4</sup> <sup>5</sup> All lanes: Anti-COX IV antibody at
immunogen.		1:5,000 dilution
Storage Buffer:	250 — 150 —	Predicted MW: 20 kDa
PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA	100 -	Observed MW: 17 kDa
0.05%.	75 —	
Storage conditions:	50 —	Lane 1: MDBK
-20°C.	37 —	Lane 2: MDCK Lane 3: Cos-7
Storage instructions:		Lane 4: Chinken Heart
Shipped on blue ice. Upon delivery, aliquot, and sto	ore <sup>25</sup> – <sub>20</sub> –	Lane 5: Pig Heart
at -20°C. Avoid freeze / thaw cycles.		
Recommended Dilutions: WB: 1:5,000 - 1:10,000	15	Lysate at 10 µg per lane
IHC-P: 1:200 - 1:400	<sup>10</sup> – Copyright(c) 20 <sup>-</sup>	2nd Ab: 18 BioLynx GAR HRP(H+L) 1:5,000
IF/ICC: 1:10 - 1:50		
FC: 1:200 - 1:1,000	1 2 3	4 5 6 All lanes: Anti-COX IV antibody a
IP: 1:50	250 <b>=</b>	1:5,000 dilution
	100- 75 - 50 -	Predicted MW: 20 kDa Observed MW: 17 kDa
Background References:	37 -	
1. Ivankovic D et al. J Neurochem 136:388-402 (2016	). 25 -	Lane 1: Mu Heart
	20 -	Lane 2: Mu Kidney
	15 - • •	Lane 3: Mu Liver
2. Phillips J et al. Sci Rep 6:26013 (2016).	10 - Copyright(c) 2018	Lane 4: Rat Heart BioLynx Lane 5: Rat Kidney
		Lane 6: Rat Liver
		Lysate at 2 µg per lane
		2nd Ab: GAB HBP(H+L) 1.5 000

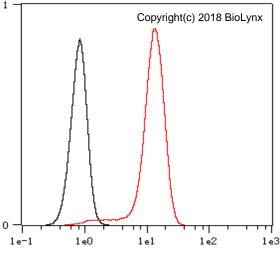
GAR HRP(H+L) 1:5,000



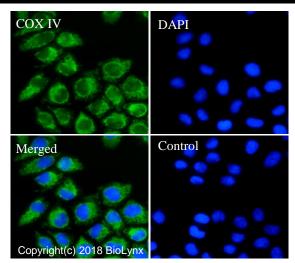




Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) analysis of liver tissue labelling COX IV with RR684 at 1:200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



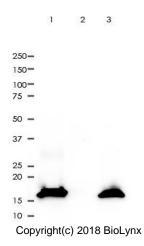
Overlay histogram showing Hela cells stained with RR684 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR684, 1:1,000 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.



RR684 staining COX IV in Hela cells by IF/ICC

(immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:50) at 4°C. An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor<sup>®</sup> 488conjugated Goat Anti-Rabbit IgG (1:500).



COX IV was immunoprecipitated from 0.4mg of Hela whole cell lysate with RR684 at 1:50 dilution. 2nd Ab: GAR HRP for IP 1:500

Lane 1: RR684 IP in Hela whole cell lysate Lane 2: PBS instead of RR684 in Hela whole cell lysate Lane 3: Hela whole cell lysate, 10  $\mu$ g (input)

Exposure: 20s

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.