



Anti-Hu Total OxPhos Complex Kit

CATALOG #: 458199

COMPONENTS: 360 µg monoclonal antibody

Antigen	Clone ID	Amount (µg)	Final conc. (µg/mL)	Immunogen
C-I-20 (ND6)	20E9DH10C12	50	1	Bovine Complex I
C-II-30 (FeS)	21A11AE7	250	5	Bovine Heart Complex II
C-III-Core 2	13G12AF12BB11	5	0.1	Bovine Heart Complex II, III
C-IV-II	12C4F12	50	1	Human Complex IV, subunit II
C-V-α	15H4C4	5	0.1	Bovine Complex V

APPLICATIONS: Western blotting detection of enzyme purity or for OXPHOS complex deficiency detection.

SPECIES CROSS-REACTIVITY: human

HOST SPECIES: Mouse

CONCENTRATION: 1.5 mg/mL in HEPES-Buffered Saline (HBS) with 0.02% azide as a preservative.

SUGGESTED WORKING CONCENTRATION: The antibody cocktail (1.5 mg/mL) should be diluted 208 x to a final working concentration of 7.2 µg/mL for Western blotting

mAb PURITY: Near homogeneity as judged by SDS-PAGE. The antibody was produced *in vitro* using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.

STORAGE CONDITIONS: Store at 4°C. Do not freeze.

COUNTRY OF ORIGIN: USA

ADDITIONAL INFO: Human heart mitochondria (Invitrogen catalog # 438505) may be used as a control sample for Western blotting.

BACKGROUND:

Genetic diseases affecting Oxidative Phosphorylation (OXPHOS) occur in around 1 in 7000 live births and are also found amongst the adult population. Analysis of these diseases remains problematic. They can occur through mutations in mitochondrial DNA and also by mutation of the many proteins encoded on nuclear DNA and transported to the mitochondrion to complete the OXPHOS complexes assembly. Presently, initial detection of a likely OXPHOS dysfunction is made by activity measurements of individual OXPHOS complexes as well as ATP levels.

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Related Products

<i>Product</i>	<i>Conjugate</i>	<i>Cat. No.</i>
Protein A	Sepharose 4B	10-1041
rec-Protein G	Sepharose 4B	10-1241
ZyMAX™ Goat anti-rabbit IgG	Unconjugated	81-6100
ZyMAX™ Goat anti-mouse IgG	Unconjugated	81-6500

Secondary Antibody Conjugates

<i>Conjugate</i>	<i>Goat anti-rabbit IgG (H+L)</i>	<i>Goat anti-mouse IgG (H+L)</i>	<i>Ex/Em*</i>	<i>Fluorescence similar to--</i>
Alexa Fluor® 488	A11008	A11001	495/519	FITC
Alexa Fluor® 555	A21428	A21422	555/565	Cy3
Alexa Fluor® 594	A11012	A11005	590/617	Texas Red
Alexa Fluor® 647	A21244	A21235	650/668	Cy5
HRP	81-6120	81-6520	NA**	NA
AP	81-6122	81-6522	NA	NA
Biotin	B2770	B2763	NA	NA

*Excitation/emission (nm); **Not applicable

For additional secondary antibody conjugates, visit www.invitrogen.com/antibodies

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