

OxPhos Rodent WB Antibody Cocktail

Product Details	
Size	300 µg
Species reactivity	Bovine, Human, Mouse, Non-human primate, Rat
Published species	Human, Mouse, Rat, Sheep
Host / Isotype	Mouse / Ig
Class	Cocktail
Type	Antibody
Clone	Cocktail
Conjugate	Unconjugated
Form	Liquid
Concentration	1.5 mg/mL
Purification	purified
Storage buffer	HEPES buffered saline
Contains	0.02% sodium azide
Storage conditions	4°C
RRID	AB_2533835

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	41 Publications

Product Specific Information

This product is a cocktail of multiple OxPhos antibodies.

C-I-20 (ND6) (clone) 20E9DH10C12 - Bovine Complex I

Purification Method: Antigen Affinity Chromatography

C-II-30 (FeS) (clone) 21A11AE7 - Bovine Heart Complex II

Purification Method: IgG Fraction

C-III-Core 2 (clone) 13G12AF12BB11 - Bovine Heart Complex II, III

Purification Method: IgG Fraction

C-IV-I (clone) 1D6E1A8 - Human Complex IV subunit I

Purification Method: Ammonium Sulfate Precipitation

C-V-alpha (clone) 15H4C4 - Bovine Complex V

Purification Method: Antigen Affinity Chromatography

The kit is suitable for Western Blotting analysis of the relative levels of the 5 OxPhos complexes in mitochondrial preparations from mouse, rat, human, or bovine sources. These clones were chosen because they are against a subunit that is labile when its complex is not assembled. Moreover, the combination is readily resolved in SDS-PAGE when the appropriate gel conditions are used. Also, COXI is a highly hydrophobic protein and appears as a broad band at ~35 kDa (not at its true molecular weight at 57 kDa). It is very sensitive to heating. Therefore, the samples, including the positive control, should not be heated over 50°C before loaded on the gel.

The antibody cocktail (1.5 mg/mL) should be diluted 250x to a final working concentration of 6.0 µg/mL for Western blotting. We recommend using PBS with 1% milk as the antibody diluent and using a high pH CAPS/PVDF transfer protocol.

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