

Store at -20C  
#8349

# NuRD Complex Antibody Sampler Kit



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1 Kit (7 x 20 microliters)

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
CHD3 Antibody	4241	20 µl	260 kDa	Rabbit
CHD4 (D8B12) Rabbit mAb	11912	20 µl	260 kDa	Rabbit IgG
HDAC1 (10E2) Mouse mAb	5356	20 µl	62 kDa	Mouse IgG1
HDAC2 (3F3) Mouse mAb	5113	20 µl	60 kDa	Mouse IgG1 kappa
MBD3 (N87) Antibody	14540	20 µl	32, 34 kDa	Rabbit
MTA1 (D40D1) XP <sup>®</sup> Rabbit mAb	5647	20 µl	78-82 kDa	Rabbit IgG
RBAP46 (V415) Antibody	6882	20 µl	48 kDa	Rabbit
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat
Anti-mouse IgG, HRP-linked Antibody	7076	100 µl		Horse

Please visit [cellsignal.com](http://cellsignal.com) for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

## Description

NuRD Complex Antibody Sampler Kit offers an economical means of detecting each target protein that composes the nucleosome remodeling and deacetylation complex (NuRD). The kit contains enough primary antibody to perform two western blot experiments with each primary antibody.

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

## Background

The transcriptional repressor NuRD (nucleosome remodeling and histone deacetylase) complex is composed of multiple subunits, which include CHD3 (also known as Mi2- $\alpha$ ), CHD4 (also known as Mi2- $\beta$ ), HDAC1, HDAC2, RBAP48, RBAP46, MTA1, MTA2, MTA3, and MBD3 (1-6). Both CHD3 and CHD4 contain two PHD (plant homeodomain) zinc finger domains that bind directly to HDAC1 and HDAC2. HDAC1 and HDAC2 are highly homologous and are involved in histone deacetylation, chromatin remodeling and transcriptional repression, and are also found together in the mSin3A and MeCP1 complexes (7-9). RBAP46 and RBAP48 bind to the histone fold region of histone H4 and are believed to target the NuRD complex to its histone substrates (10). MBD3, a member of the methyl-CpG-binding domain protein family, and the metastasis associated genes MTA1, MTA2, and MTA3 were all found to be integral components of the NuRD complex (2,3,7,11).

## Background References

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