

# Package ‘antiProfilesData’

May 24, 2022

**Maintainer** Hector Corrada Bravo <hcorrada@gmail.com>

**Author** Hector Corrada Bravo, Matthew McCall and Rafael A. Irizarry

**Version** 1.33.0

**License** Artistic-2.0

**Title** Normal colon and cancer preprocessed affy data for antiProfile building.

**Description** Colon normal tissue and cancer samples used in Corrada Bravo, et al. gene expression anti-profiles paper: BMC Bioinformatics 2012, 13:272 doi:10.1186/1471-2105-13-272. Measurements are z-scores obtained from the GeneExpression Barcode in the 'frma' package

**LazyData** yes

**Depends** Biobase,

**Suggests** frma, GEOquery, GEOmetadb

**biocViews** ExperimentData, MicroarrayData, Tissue, CancerData, ColonCancerData

**Collate** 'antiProfilesData-package.r' 'apColonData.r'

**git\_url** <https://git.bioconductor.org/packages/antiProfilesData>

**git\_branch** master

**git\_last\_commit** 4a33054

**git\_last\_commit\_date** 2022-04-26

**Date/Publication** 2022-05-24

## R topics documented:

antiProfilesData-package . . . . .	2
apColonData . . . . .	2

<b>Index</b>	<b>4</b>
--------------	----------

---

antiProfilesData-package

*Curated dataset of normal and cancer samples on Affymetrix hgu133plus2 expression arrays.*

---

### Description

Data used in Corrada Bravo, et al. gene expression anti-profiles paper: BMC Bioinformatics 2012, 13:272 doi:10.1186/1471-2105-13-272. Measurements are z-scores obtained from the GeneExpression Barcode in the 'frma' package. The full curated dataset in the same format containing many normal and cancer samples is available for download <http://cbcb.umd.edu/~hcorrada/antiProfiles>

### Author(s)

Hector Corrada Bravo

### References

Corrada Bravo, H., Pihur, V., McCall, M., Irizarry, R.A., Leek, J.T. (2012). "Gene expression anti-profiles as a basis for accurate universal cancer signatures" BMC Bioinformatics, 13:272

---

apColonData

*Curated dataset of many colon normal and cancer samples on Affymetrix hgu133plus2 expression arrays.*

---

### Description

Data used in Corrada Bravo, et al. gene expression anti-profiles paper: BMC Bioinformatics 2012, 13:272 doi:10.1186/1471-2105-13-272. Measurements are z-scores obtained from the GeneExpression Barcode in the 'frma' package. Only probes mapped to genes within colon cancer hypomethylation blocks defined in Hansen et al. are included.

### format

Data is an [ExpressionSet](#) object. The exprs slot contains gene expression barcode z-scores from frma preprocessed data. The phenoData slot contains a data frame with the following columns:

filename: The CEL filename in the Gene Expression Omnibus (GEO)

DB\_ID: The GSM sample id in GEO

ExperimentID: The GSE experiment id in GEO

Tissue: Tissue type, obtained from the gene expression barcode annotation

SubType: Sample sub-type, obtained from the gene expression barcode annotation

ClinicalGroup: Clinical sample annotation, obtained from the gene expression barcode annotation

Status: Normal (0) or Cancer (1) indicator

**Author(s)**

Hector Corrada Bravo

**References**

Corrada Bravo, H., Pihur, V., McCall, M., Irizarry, R.A., Leek, J.T. (2012). "Gene expression anti-profiles as a basis for accurate universal cancer signatures" *BMC Bioinformatics*, 13:272

Hansen, K. D., Timp, W., Bravo, H. C., Sabunciyan, S., Langmead, B., McDonald, O. G., Wen, B., et al. (2011). "Increased methylation variation in epigenetic domains across cancer types." *Nature Genetics*, 43(8), 768

**See Also**

[ExpressionSet](#) for the class definition, [frma](#) for the preprocessing method used, [barcode](#) for the function to obtain the z-score definition.

**Examples**

```
data(apColonData)
pData(apColonData)
```

# Index

## \* **datasets**

apColonData, [2](#)

antiProfilesData-package, [2](#)

apColonData, [2](#)

barcode, [3](#)

ExpressionSet, [2](#), [3](#)

frma, [3](#)