

CBR3 Antibody (clone AT3C5)
Mouse Monoclonal Antibody
Catalog # ALS12850**Specification**

CBR3 Antibody (clone AT3C5) - Product Information

Application	WB, IHC-P, E
Primary Accession	O75828
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	31kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

CBR3 Antibody (clone AT3C5) - Additional Information**Gene ID** 874**Other Names**

Carbonyl reductase [NADPH] 3, 1.1.1.184, NADPH-dependent carbonyl reductase 3, CBR3

Target/Specificity

CBR3 (1-277aa)

Reconstitution & Storage

Aliquot and store at -20°C. Minimize freezing and thawing.

Precautions

CBR3 Antibody (clone AT3C5) is for research use only and not for use in diagnostic or therapeutic procedures.

CBR3 Antibody (clone AT3C5) - Protein Information**Name** CBR3 ([HGNC:1549](#))**Function**

Catalyzes the NADPH-dependent reduction of carbonyl compounds to their corresponding alcohols (PubMed:18493841). Has low NADPH- dependent oxidoreductase activity. Acts on several orthoquinones, acts as well on non-quinone compounds, such as isatin or on the anticancer drug oracin (PubMed:15537833, PubMed:18493841, PubMed:19841672). Best substrates for CBR3 is 1,2- naphthoquinone, hence could play a role in protection against cytotoxicity of exogenous quinones (PubMed:19841672). Exerts activity toward ortho-quinones but not paraquinones. No

endogenous substrate for CBR3 except isatin has been identified (PubMed:19841672).

Cellular Location

Cytoplasm.

Tissue Location

Detected in ovary, pancreas, intestine, colon, kidney, brain, thymus, lung, heart, liver, spleen, leukocyte, prostate and testis.

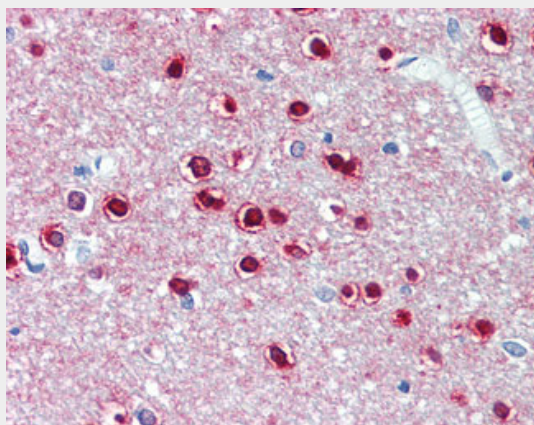
Volume

50 µl

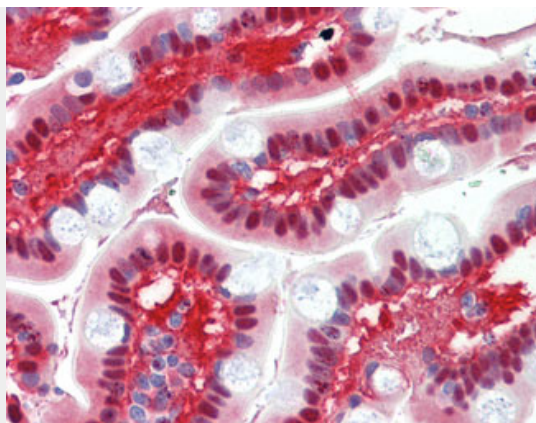
CBR3 Antibody (clone AT3C5) - Protocols

Provided below are standard protocols that you may find useful for product applications.

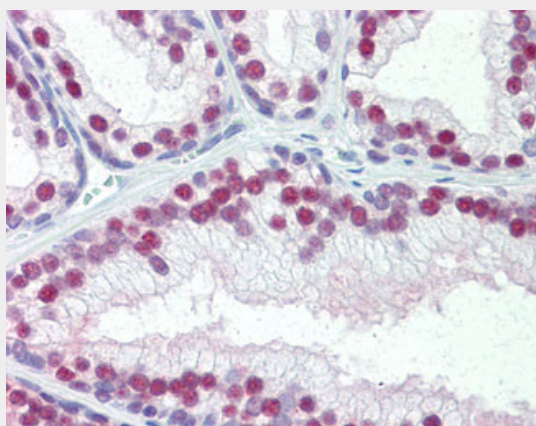
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CBR3 Antibody (clone AT3C5) - Images

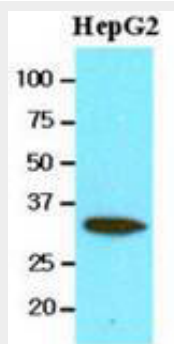
Anti-CBR3 antibody IHC of human brain, cortex, white matter.



Anti-CBR3 antibody IHC of human small intestine.



Anti-CBR3 antibody IHC of human prostate.



Western analysis of HepG2 cell lysate.

CBR3 Antibody (clone AT3C5) - Background

Has low NADPH-dependent oxidoreductase activity towards 4-benzoylpyridine and menadione (in vitro).

CBR3 Antibody (clone AT3C5) - References

Watanabe K.,et al.Genomics 52:95-100(1998).
Shimizu N.,et al.Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
Terada T.,et al.Submitted (OCT-2003) to the EMBL/GenBank/DDBJ databases.
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Hattori M.,et al.Nature 405:311-319(2000).