**Catalog No. LF-MA0207**

MONOCLONAL ANTIBODY

# Anti-Bid(8D2)

**Background :** Bcl-2 (B-cell lymphoma 2) family govern mitochondrial outer membrane permeabilization (MOMP) and can be either pro-apoptotic (Bax, BAD, Bak, Bid and Bok) or anti-apoptotic (Bcl-2, Bcl-xL, and Bcl-w). Mitochondrial membrane permeabilization and subsequent release of apoptotic factors are key mechanisms during this process.

The members of the Bcl-2 family share one or more of the four characteristic domains of homology entitled the Bcl-2 homology (BH) domains (named BH1, BH2, BH3 and BH4).

Bid consists of only one Bcl-2 homology domain, BH3. Bid cleavage to tBid (truncated Bid) activates apoptotic pathway at the mitochondrial level. Cleavage of cytosolic Bid and subsequent mitochondrial translocation have been detected in neuronal cell death related to acute or chronic neurodegeneration. Pharmacological inhibition of Bid can be a promising therapeutic strategy in neurological diseases where programmed cell death is prominent.

After Bid activation and mitochondrial translocation, the most prominent downstream mechanisms of Bid-dependent neuronal apoptosis involve disruption of mitochondrial membrane integrity and intracellular calcium homoeostasis and the release of pro-apoptotic mitochondrial factors such as cytochrome c.

**Immunogen :** Recombinant human protein purified from *E.coli* (His-Bid)

**Host :** Mouse **Size :** 100ul

**Clone number :** 8D2

**Isotype** : IgG2a, k

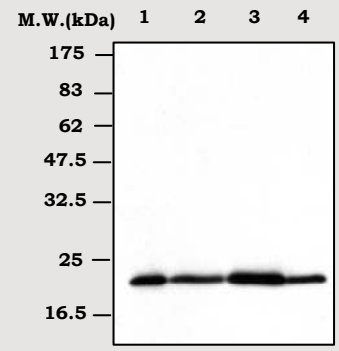
**Composition** : Hepes with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol

**Positive control :** A431 cell lysate

**Storage :** Store for 1 year at -20°C from date of shipment

**Species cross reactivity**

| Human | Mouse | Rat |
|---|---|---|
| + | - | - |




**Immunoblot Analysis** of cell lysates
Lane 1 : A431 cell lysate
Lane 2 : K562 cell lysate
Lane 3 : NCI-H460 cell lysate
Lane 4 : HeLa cell lysate

**Applications :**
ELISA
Western Blotting (1:10,000)
Immunoprecipitation (3u1/400ul lysates)

**Background Reference :**

1) Culmsee C and Plesnila N., 2006, Biochem Soc Trans. 34(Pt 6):1334-1340

2) Zinkel S, Gross A and Yang E, 2006, Cell Death Differ. 13(8):1351-1359

3)Gross A., 2006, Cell Cycle. 5(6):582-584



**Gentaur Molecular Products**
**Voortstraat 49**
**1910 Kampenhout, Belgium**
**http://www.gentaur-worldwide.com**