

eth_getUncleByBlockHashAndIndex

Returns information about a uncle of a block given the block hash and the uncle index position.

Parameters

- block hash
- : [Required
-] A string representing the hash (32 bytes) of a block.
- uncle index position
- : [Required
-] A hexadecimal equivalent of the integer indicating the uncle's index position.

Returns

A block object, or null when no block was found. The block object returned will consist of the following keys and their values:

- number
- : The block number.Null
- when the returned block is the pending block.
- hash
- : 32 bytes. Hash of the block.Null
- when its pending block.
- parentHash
- : 32 bytes. Hash of the parent block.
- nonce
- : 8 bytes. Hash of the generated proof-of-work.Null
- when the returned block is the pending block.
- sha3Uncles
- : 32 bytes. The SHA3 of the uncles data in the block.
- logsBloom
- : 256 bytes. The Bloom filter for the logs of the block.Null
- when the returned block is the pending block.
- transactionsRoot
- : 32 bytes. The root of the transaction trie of the block.
- stateRoot
- : 32 bytes. The root of the final state trie of the block.
- receiptsRoot
- : 32 bytes. The root of the receipts trie of the block.
- miner
- : 20 bytes. The address of the beneficiary to whom the mining rewards were given.
- difficulty
- : The hexadecimal of the difficulty for this block.
- totalDifficulty
- : The hexadecimal of the total difficulty of the chain until this block.
- extraData
- : The "extra data" field of this block.
- size
- : The hexadecimal of the size of this block in bytes.
- gasLimit
- : Maximum gas allowed in this block.
- gasUsed
- : Total used gas by all transactions in this block.
- timestamp
- : The unix timestamp for when the block was collated.
- uncles
- : (Array). An array of uncle hashes.

Example

Replace YOUR-API-KEY with an API key from your [Infura dashboard](#).

Request

- cURL
- WSS

```
curl https://mainnet.infura.io/v3/YOUR-API-KEY -X POST -H 'Content-Type: application/json' -d '{"jsonrpc": "2.0", "method": "eth_getUncleByBlockHashAndIndex", "params": ["0xb3b20624d8f0f86be5d0d4688409e5cea4bd02d70bf6fe79e9384d47d6a5a35", "0x0", "id": "1"]}' -wscat -s --https://mainnet.infura.io/ws/v3/YOUR-API-KEY -x
```

Response

- JSON

[illegible]

Last updated on Apr 19, 2024 [Previous](#) [eth_getTransactionReceipt](#) [Next](#) [eth_getUncleByBlockNumberAndIndex](#)